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Pred. No. 0.15;
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DEFINITION

BD074607 Antisence

20 bp DNA linear PAT 27-J oligonucleotide composition and modulation method

PAT 27-AUG-2002 n method of JNK

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OS Artificial Sequence
PN JP 2001514905-A/31
PD 18-SEP-2001
PF 07-AUG-1998 JP 200
PR 13-AUG-1997 US
PI ROBERT MCKAY, NICHO
NERO, WILLIAM A GAARDE
PC C1201/68, A61K31/70
PC C1201/68, A61K31/70
PC C120115/00
PC C12015/00
PC C12015/00
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PC C12015/00
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PC SANTISENSE SEQUENCE
PH KEY
PT SOURCE
                   synthetic construct
synthetic construct
artificial sequences.

1 (bases 1 to 20)

Mckay,R., Dean,N., Monia,B.P.,
Antisence oligonucleotide compo
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Antisence oligonucleotide compo
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artificial sequences.
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C12N15/00
                                                                                                                                                                                      PHARMACEUTICALS INC
Artificial Sequence
JP 2001514905-A/42
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13-AUG-1997 US 08/910629
ROBERT MCKAY,NICHOLAS DEAN,BRETT P MONTA,PAMELA SCOTT
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13-AUG-1997 US 08/910629
ROBERT MCKAY,NICHOLAS DEAN,BRETT P MONIA,PAMBLA SCOTT
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/organism='Artificial Sequence'
Location/Qualifiers
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Location/Qualifiers
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/db_xref="taxon:32630"
7 c 7 g
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Sequence 465
AX129247
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 16;
                                                                                         Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J. Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor Patent: US 6346398-A 6244 12-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; l
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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15; Conserv
             Similarity
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                                              /organism="unknown"
6 c 7 g
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/mol_type="genomic DNA
/db_xref="taxon:32630"
7 c 7 g
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/db_xref="taxon:9606"
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/mol_type="genomic DNA"
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AR192173/c
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AR192173
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AR188734
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                                                                                                                                                                                                                                                            Unclassified.

1 (bases 1 to 17)
Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor Patent: US 6346398 A 7661 12-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3 CCGGGCCAGGCCAAAG
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Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
Patent: US 6346398, A 4222 12-FEB-2002;
                                                     AR145684
Sequence 6 from
AR145684
Unclassified.
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Pavco,P., McSwiggen,J., Stinchcomb,D. and Escobedo,J.
Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor Patent: US 6346398-A 1996 12-FEB-2002;
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2 (bases 1 to 17)

Ammalian checkpoint genes and proteins patent: US 6218109-A 6 17-ApR-2001;

Location/Qualifiers
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Elledge, S. J. and Sanchez, Y.
Mammalian checkpoint genes and proteins
Patent: US 6307015-A 6 23-OCT-2001;
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Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
Patent: US 634639-A 7660 12-FEB-2002;
Method of amplifying DNA fragment, apparatus for amplifying DNA
                        Unclassified.
                                               Unknown
                                                        Unknown.
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Pavco, P., McSwiggen, J.,
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OS Unidentified
PN JP 1999276176-A/100
PD 12-CCT-1999
PF 31-MAR-1998 JP 199808
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PC C12N15/09,B09B3/00,C1:
Strandedness: Single;
FH Key
FT Source 1. . 1:
FT Source / Organ
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Method and device for a
E38726
E38726.1 GI:18621388
JP 2000270867-A/100.
             unidentified unclassified
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                                                                                                                                                                                                         9 CAGGCCAAAGTC
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/mol_type="genomic DNA"
/db_xref="taxon:32644"
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OS Unidentified
PN JP 2000270867-A/100
PD 03-OCT-2000
PD 19-WAR-1999 JP 1999
PR KOICHI INOUE
PC C12N15/09,C12M1/00,
CC Strandedness: Singl
CC Topology: Linear;
FH Key
FT Source
1
/or
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Method for amplifying DNA fragment, amplification apparatus of DNA fragment, method for assaying a group of microorganisms, method for analyzing a group of microorganisms, and method for assaying contaminating substance.
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                                                                                                                                                                                                                                            Method for amplifying DNA fragment, amplification apparatus of DNA fragment, method for assaying a group of microorganisms, method for analyzing a group of microorganisms, and method for assaying contaminating substance Patent: JP 199341999-A 100 14-DEC-1999; SAVYO ELECTRIC CO LTD, SOCIETY FOR TECHNO-INNOVATION OF AGRICULTURE FORESTRY AND FISHERIES

OS Artificial Sequence

DN JP 10002410808 20100
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                                                                                               artificial sequences.
1 (bases 1 to 12)
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JP 1999341989-A/100.
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C12N15/09, C12M1/00, C12Q1/68, C12N15/00
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                                                                       /organism='Artificial Sequence'
           /organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon;32630"
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/mol_type="genomic DNA"
/db_xref="taxon:32644"
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                                                                                                                                                                Human transcriptomes
Patent: WO 0138577-A 1411 31-MAY-2001;
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Patent: WO 0138577-A 1410 31-MAY-2001;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/mol_type="genomic DNA"
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Sequence 11
AR285088
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                       1 (bases 1 to 13)
Andersson,M.K., Berglund,L.G.T., Reneland,R.H. and Reagents and methods for detection of heart failure patent: US 6528268-A 36 04-MAR-2003;
Location/Qualifiers
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Sequence 77
AR136587
AR136587.1
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Andersson,M.K., Berglund,L.G.T., Reneland,R.H. and Adam,G.I.R.
Reagents and methods for detection of heart failure
Patent: US 6528268-A 11 04-MAR-2003;
Location/Qualifiers
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Li,L. and Hood,L.
Human jagged polypeptide, encoding nucleic Patent: US 6136952-A 77 24-OCT-2000;
Location/Qualifiers
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1 (bases 1 to 13)

S Gillies, S. D., Lo, K.M. and Lan, Y.

Hetero dimer fused proteins useful against targeting imm and general immunostimulation

L Patent: JP 2001525423-A 7 11-DEC-2001;

LEXIGEN PHARMACEUTICALS CORP

OS Artificial Sequence
PN P 2001525423-A/7

PD 11-DEC-2001

PR 08-DEC-1998 UP 2000524321

PR 08-DEC-1997 US 08/986997

PI STEPHEN D GILLIES, KIN MING LO, YAN LAN
PC C07K19/00, A61K47/48, A61P37/04, C07K14/54, C07K16/30, C
PC C12P21/00/, C12N15/00, A61K37/02

CC Description of Artificial Sequence: Synthetic Oligo
FF Source

Oction of Artificial Sequence: Synthetic Oligo
FT Source
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Sequence 32
AR301743
AR301743.1
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            Compositions and methods for wound healing Patent: US 6538173-A 324 25-MAR-2003; Location/Qualifiers
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08-DEC-1997 US 08/986597
STEPHEN D GILLIES, KIN MING LO, YAN LAN
C07K19/00, A61K47/48, A61P37/04, C07K14/54, C07K16/30, C12N15/09, C12P21/00//
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Location/Qualifiers
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Sequence 4426 from Patent
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                                                                                                                                                                  Method for determining homeostasis of the skin Patent: WO 02053774-A 4426 11-JUL-2002; Henkel Kommanditgesellschaft auf Aktien (DE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Method for determining homeostasis of the skin
Patent: WO 02053774-A 166 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
                                                                                                                                                                                                          Petersohn,D., Conradt,M. and Hofmann,K.
                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Sequence 7587 from Patent
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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JP 2002503460-A/324
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13-FEB-1998 US 60/074737,26-AUG-1998
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                                                                              organism="Mus musculus"
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synthetic construct
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/note="TAG sequence Hs74649 and Hs288761"
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/mol_type="genomic DNA"
/db xref="taxon:32630"
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Sequence 2423 from Patent
AX625382
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                                     Petersohn,D., Conradt,M. and Hofmann,K. Method for determining homeostasis of the skin Patent: WO 0205374-A 6380 11-JUL-2002; Henkel Kommanditgesellschaft auf Aktien (DE) Location/Qualifiers
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Sequence 6380 from Patent
AX629339
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Lopez-Nieto, C.Eduardo. and Nigam, S. Kumar.
Processes, apparatus and compositions for characterizing nucleotide sequences based on K-tuple analysis
Patent: US 6110667-A 63 29-AUG-2000;
Homo sapiens (human)
                                                                                                                                                                                                                                                    Patent: WO 0138577-A 420 31-MAY-2001;
The Johns Hopkins University (US)
Location/Qualifiers
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae
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AX152507
Sequence
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Human transcriptomes
Patent: WO 0138577-A 644 31-MAY-2001;
The Johns Hopkins University (US)
Location/Qualifiers
                                                                                                                                                                                            Sequence 644 from Patent AX152729
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Patent: WO 0138577-A 422 31-WAY-2001;
The Johns Hopkins University (US)
Location/Qualifiers
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Patent: WO 0138577-A 421 31-MAY-2001;
The Johns Hopkins University (US)
                                                                                              Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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                                                              Velculescu, V.E., Vogelstein, B.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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AX153313/c
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AX153314
AX153314.1 GI:14534965
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Sequence 1228 from Patent WO0138577.
AX153313
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                                                                                                                                       Velculescu, V.E., Vogelstein, B. and Kinzler, K.W. Human transcriptomes
Patent: WO 0138577-A 1229 31-MAY-2001;
                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Location/Qualifiers
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/mol_type="genomic DNA"
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9; Conserv
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Sequence 1231 from Patent
AX153316
AX153316.1 GI:14534967
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Patent: WO 0138577-A 1230 31-MAY-2001;
The Johns Hopkins University (US)
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Patent: WO 0138577-A 1231 31-MAY-2001;
The Johns Hopkins University (US)
Location/Qualifiers
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/db_xref="taxon:9606"
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/mol type="genomic DNA"
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Sequence 1234 from Patent
AX153319
AX153319.1 GI:14534970
                                                           Homo sapiens (human)
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Sequence 1233 from Pater
AX153318
AX153318.1 GI:14534969
Velculescu, V.E., Vogelstein, B. and Kinzler, K.W
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Patent: WO 0138577-A 1233 31-MAY-2001;
The Johns Hopkins University (US)
Location/Qualifiers
                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
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Patent: WO 0138577-A 1232 31-MAY-2001;
The Johns Hopkins University (US)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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Enkaryota; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
Clade; Panicoideae; Andropogoneae; Zea.
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Sequence 14
AX224407
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Patent: WO 0138577-A 1234 31-MAY-2001;
The Johns Hopkins University (US)
Location/Qualifiers
                                                  Albertsen,M.C., Fox,T.W., Garnaat,C.W., Huffman,G. Male tissue-preferred regulatory region and method Patent: WO 0160997-A 14 23-AUG-2001; PIONEER HI-BRED INTERNATIONAL, INC. (US)
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/mol_type="genomic DNA"
/db_xref="taxon:4577"
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AX224410/c
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AX301480/c
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Sequence 194 from Patent
AX301480
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                                                                                                                         Patent: WO 0185941-A 194 15-NOV-2001;
Academisch Ziekenhuis bij de Universiteit
Location/Qualifiers
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Mammalia; Eutheria; Primates;
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                                                                  /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
5 c 3 g
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/mol_type="genomic DN
/db_xref="taxon:4577"
5 c 5 g
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BD065145/c
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LPS activated human monocyte expressing genupatent: JP 200106993-A 255 21-MAR-2001;

JAPAN SCIENCE AND TECHNOLOGY CORP

OS Homo sapiens (human)
PN JP 2001069993-A/255
PD 21-MAR-2001 JP 2000131079
PR 28-APR-2000 JP 2000131079
PR
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                                                 Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomyces.

1 (bases 1 to 10)

Velculescu, V.E., Vogelstein, B. and Kinzler, K.W.
Characterization of the yeast transcriptome
Patent: JP 2001509017-A 81 10-JUL-2001;
THE JOHNS UNIVERSITY SCHOOL OF MEDICINE
OS Saccharomyces cerevisiae (yeast)
PN JP 2001509017-A/81
PD 10-JUL-2001
PF 22-JAN-1998 JP 1998532117
PR 23-JAN-1997 US 60/035917
PD 10-JUL-2001

PF 22-JAN-1998 JP 1998532117

PR 23-JAN-1997 US 60/035917

PR 23-JAN-1997 US 60/035917

PI VICTOR E VELCULESCU, BERT VOGELSTEIN, KENNETH W KINZLER PC C12N15/10, C12N15/31, C07K14/395, C12Q1/68, C12Q1/02 CC Characterization of the yeast transcriptome
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JP 2001509017-A/81.
Saccharomyces cerevisiae (baker's yeast)
Saccharomyces cerevisiae
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C12N15/09,C07K14/47,C07K16/18,G01N33/50,G01N33/53//A61K45/00,
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JP 2001069993-A/255
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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Nagai, S.,
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1 (bases 1 to 10)

Matsushima, K., Hashimoto, S., Suzuki, T. and Nagai, S.

Human matured/activated dendritic cell expression genes

Patent: JP 2001327293-A 45 27-NOV-2001;

JAPAN SCIENCE AND TECHNOLOGY CORP

OS Homo sapiens (human)

PN JP 2001327293-A/45

PD 27-NOV-2001 JP 2000150562

PF 22-MAY-2000 JP 2000150562
                                                                                                Human activated Th1 and BD161262 BD161262.1 GI:27867020
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           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 10)
Nagai,S., Matsushima,K. and Hashimoto,S.
                                                             Homo sapiens
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                                                                                     JP 2002186482-A/84
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22-MAY-2000 JP 2000150562
KOJI MATSUSHIMA, SHINICHI HASHIMOTO, TAKUJI SUZUKI, SHIGENORI
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Location/Qualifiers
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3 c 4 g
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OS Homo sapiens (human)
PN JP 2002186482-A/84
PD 02-JUL-2002
PF 19-DEC-2000 JP 2000385816
PF 19-DEC-2000 JP 2000385816
PF SHIGENORI NAGAI, KOJI MATSUSHIMA, SHINICHI HASHIMOTO PC C12N15/09, C07K14/47, C07K16/18, C12P21/08, C1NN15/00 CC Huma activated Th1 and Th2 cell expression genes FH Key
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                                                                                                                                                                                                                                                                                                                                            Human liver disease-expressing genes patent: JP 2002209591-A 32 30-JUL-2002; JAPAN SCIENCE AND TECHNOLOGY CORP OS Homo sapiens (human)
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                                                   Conservative
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30-JUL-2002
19-JAN-2001 JP 200
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KOJI MATSUSHIMA, SHINICHI HASHIMOTO, SHUICHI KANEKO, TARO
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                                                                                                                                                                    /organism='Homo sapiens (human)'
Location/Qualifiers
                                                                                                   /organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
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/db_xref="taxon:9606"
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RESULT 64

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BD167212/c
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PN JP 20
PD 30-JI
PD 30-JI
PF 19-JI
PF KOJI
YAMASHITA
PC C12NI
PC C12NI
PC C12NI
CC Humaa
CC Humaa
FH Key
FT Source
                                                                                                                                                                              unclassified.
1 (bases 1 to 10)
Matsushima, K., Hashimoto, S., Kaneko, S. and Human liver disease-expressing genes Patent: JP 2002209591-A 757 30-JUL-2002;
JAPAN SCIENCE AND TECHNOLOGY CORP OS Homo sapiens (human)
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Matsushima, K., Hashimoto, S., Kaneko, S. ar

Human liver disease-expressing genes

Patent: JP 2002209591-A 451 30-JUL-2002;

JAPAN SCIENCE AND TECHNOLOGY CORP

OS Homo sapiens (human)

PN JP 2002209591-A/451
                                                                                                                                                                                                                                                                                         BD167212.1 GI:27873024
JP 2002209591-A/757.
unidentified
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KOJI MATSUSHIMA, SHINICHI HASHIMOTO, SHUICHI KANEKO, TARO
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19-JAN-2001 JP 2001012328
KOJI MATSUSHIMA, SHINICHI HASHIMOTO, SHUICHI KANEKO, TARO
                                       Human liver disease-expressing genes
Key Location/Qualifiers
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Key Location/Qualifiers
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                                                                                               2N15/09, C07K14/47, C07K16/18, G01N33/15, G01N33/50//C12P21/02,
/organism='Homo sapiens (human)',
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="unidentified"
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PN JP 2000279181-A/22
PD 10-CCT-2000
PF 01-APR-1999 JP 1999095481
PR SHINICHI HASHIMOTO, KOJI MATSUSHIMA, TAKUJI SU C12N15/09,C07K14/475,C07K16/18,C12N15/00
CC Key Location/Qualifiers
FT source /organism='Homo sapiens (humo for the control of the contr
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 10)
Hashimoto,S., Matsushima,K. and Suzuki,T. Genes with human dendritic cell expression Patent: JP 2000279181-A 276 10-OCT-2000;
                                                                                                                                                          Homo sapiens (human)
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£39743.1 GI:18621834

JP 2000279181-A/276.
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Hashimoto, S., Matsushima, K. and Suzuki, T.
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/db_xref="taxon:9606"
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RESULT 69
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OS Homo sapiens (hum
PN JP 2000279181-A/2
PD 10-OCT-2000
PF 01-APR-1999 JP 199
PR
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1 (bases 1 to 10)

Matsushima, K., Hashimoto, S., Kaneko, S. and Yamashita, T. Human normal liver cell expression genes Patent: JP 2001211883-A 181 07-AUG-2001; SCIENCE & TECH AGENCY
OS Homo sapiens (human)
PN JP 2001211883-A/181
PD 07-AUG-2001 JP 2000023170
PF 31-JAN-2000 JP 2000023170
PF 31-JAN-2000 JP 2000023170
PI KOJI MATSUSHIMA, SHINICHI HASHIMOTO, SHUICHI KANEKO, TARO PI
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JP 2000279181-A/276
10-OCT-2000
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/mol_type="genomic DNA"
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                                   Homo sapiens (human)
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St Croix, B., Kinzler, K.W. and Vogelstein, B
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Sequence 328 from Patent
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Sequence 214 from Patent
AX470637
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Patent: WO 0210217-A 119 07-FEB-2002;
The Johns Hopkins University (US)
Location/Qualifiers
                                                                                           Hofmann,K., Conradt,M. and Petersohn,D. Method for determining skin stress or skin Patent: WO 02053773-A 328 11-JUL-2002;
                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Homo sapiens
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Sequence 916 from Patent WO02053773.
AX471339 1 GI:22206464
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AX471385
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Homo sapiens (human)
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
           Petersohn,D., Conradt,M. and Hofmann,K. Method for determining homeostasis of the skin Patent: WO 02053774-A 823 11-JUI-2002; Henkel Kommanditgesellschaft auf Aktien (DE)
                                                                                Homo sapiens (human)
Homo sapiens
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, E
Mammalia, Eutheria, Primates, Catarrhini, Hominidae,
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Sequence 823 from Patent
AX623782
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Location/Qualifiers
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                              Petersohn,D., Conradt,M. and Hofmann,K. Method for determining homeostasis of the skin Patent: WO 02053774-A 2932 11-JUL-2002. Henkel Kommanditgesellschaft auf Aktien (DE)
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/mol_type="genomic DNA"
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Patent: WO 02053774-A 3424 11-JUL-2002;
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Location/Qualifiers
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                                                                                      Sequence 5213 from Patent AX628172
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                      Method for determining homeostasis of the skin
Patent: WO 02053774-A 6304 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae
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Sequence 6839 from Patent
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Sequence 6548 from Patent
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Patent: MO 02053774-A 6548 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Sequence 7314 from Patent
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae
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/mol_type="genomic DNA"
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
            Method for determining homeostasis of the skin Patent: WO 02053774-A 7911 11-JUL-2002;
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
4 c 2 g
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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90.0%;
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Viruses; dsDNA viruses, no RNA stage; Adenoviridae; Mastadenovirus.

1 (bases 1 to 11)

Hearing, P., Schmid, S.I., Ostapchuk, P.H. and Erturk, E.

Selective regulation of adenovirus production

Patent: JP 2002506355-A 22 26-FEB-2002;

THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK
PF 15-APR-1999 JP 1999552110
PR 15-APR-1998 US 60/081867,05-JUN-1998 US 60/08832:
PATRICK HEARING,SUSANNE I SCHMID,PHILONIENA H OSTAPCHUK,ECE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
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                                                                Patent: WO 0018913-A 2 06-APR-2000;
ES JOHANNES HENDRIKUS VAN (NL); UNIV UTRECHT
JOHANNES CAROLUS (NL); PELFER MARK ALAN (US)
Location/Qualifiers
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1 (bases 1 to 9)
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/mol_type="genomic DNA"
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/mol type="genomic DNA"
/db_xref="taxon:32630"
/note="mutation Fcf-responsive element"
4 c 2 g 3 t
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AX668927/c
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Sequence 2376 from Patent
AX668927
AX668927.1 GI:29291904
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Sangamo Biosciences Inc. (US)
Location/Qualifiers
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Position dependent recognition of
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Position dependent recognition of
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Biosciences Inc. (US)
Location/Qualifiers
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/mol_type="genomic DNA"
/db_xref="taxon:32630"
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/mol_type="genomic DNA"
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                                RESULT 105
AX153314
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ORGANISM
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ACCESSION
VERSION
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KEYWORDS
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AX153313
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Sequence
AX153314
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Patent: WO 0138577-A 1228 31-MAY-2001;
The Johns Hopkins University (US)
Location/Qualifiers
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Sequence 1228 from Patent
AX153313
AX153313.1 GI:14534964
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                                                                                                                                                                                                                                                                       Velculescu, V.E., Vogelstein, B. and Kinzler, K.W
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Biosciences Inc. (US)
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3 c 4 g
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Sequence 1230 from Patent
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Patent: WO 0138577-A 1230 31-MAY-2001;
The Johns Hopkins University (US)
Location/Qualifiers
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Patent: WO 0138577-A 1229 31-MAY-2001;
The Johns Hopkins University (US)
Human transcriptomes
                                    Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                     AX153316.1 GI:14534967
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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            Velculescu, V.E., Vogelstein, B.
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Catarrhini; Hominidae; Homo.
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The Johns Hopkins University (US)
Location/Qualifiers
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Patent: WO 0138577-A 1232 31-MAY-2001;
The Johns Hopkins University (US)
Location/Qualifiers
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The Johns Hopkins University (US)
Location/Qualifiers
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                                                                                                                                            JAPAN SCIENCE AND TECHNOLOGY CORP
OS Homo sapiens (human)
PN JP 2001327293-A/45
PD 27-NOV-2001
PF 22-MAY-2000 JP 2000150562
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Sequence
AX153319
                                                                                                                                                                                                             Matsushima, K., Hashimoto, S., Suzuki, T. and Nagai, S. Human matured/activated dendritic cell expression genes Patent: JP 2001327293-A 45 27-NOV-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human transcriptomes
Patent: WO 0138577-A 1234 31-MAY-2001;
The Johns Hopkins University (US)
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JP 2001327293-A/45.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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27-NOV-2001
22-NAY-2000 JP 2000150562
KOJI MATSUSHIMA, SHINICHI HASHIMOTO, TAKUJI
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1234 from Patent WO0138577.
        /db_xref="taxon:9606"
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                                                               Location/Qualifiers
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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PI SHIGENORI NAGAL, KOJI MATSUSHIMA, SHINICHI HASHIMOTO (C12N15/09, C07K14/47, C07K16/18, C12P21/08, C12N15/00 CC Huactivated Thi and Thi cell expression genes FH Kery Location/Qualifiers
PT source 1 10
                   1 (bases 1 to 10)

1 (bases 1 to 10)

Matsushima, K., Hashimoto, S., Kaneko, S. and Yamashita, T.

Human liver disease-expressing genes

Patent: JP 2002209591-A 757 30-JUL-2002;

JAPAN SCIENCE AND TECHNOLOGY CORP

OS Homo sapiens (human)

PN JP 2002209591-A/757

PD 30-JUL-2002

PF 19-JAN-2001 JP 2001012328

PF 19-JAN-2001 JP 2001012328

PI KOJI MATSUSHIMA, SHINICHI HASHIMOTO, SHUICHI KANEKO, TARO
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1 (bases 1 to 10)

Nagai,S., Matsushima,K. and Hashimoto,S.
Human activated Th1 and Th2 cell expression genes
Patent: JP 2002186482-A 84 02-JUL-2002;
JAPAN SCIENCE AND TECHNOLOGY CORP
OS Homo sapiens (human)
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Human liver disease-expressing
BD167212
BD167212.1 GI:27873024
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Location/Qualifiers
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/mol_type="genomic DNA"
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ISHINICHI HASHIMOTO, KOJI MATSUSHIMA, TAKUJI SUZUKI PC
C12N15/09,C07K14/475,C07K16/18,C12N15/00
CC
FH Key
Location/Qualifiers
FT Source
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FT Source
/organism='Homo sapiens (human)'.
                                                                                                                                                                                                                                                                                                                                                                                                                                          Genes with human dendritic cell expression Patent: JP 2000279181-A 22 10-OCT-2000; SCIENCE & TECH AGENCY
           E54829.1 GI:22556312 JP 2001211883-A/181.
                                                E54829 10 bp Human normal liver cell expression
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1 (Dases 1 to 10)

Hashimoto,S., Matsushima,K. and Suzuki,T.
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Homo sapiens (human)
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E39489.1 GI:18621580
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sapiens (human)
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C12N15/00
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JP 2000279181-A/22
10-OCT-2000
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Key Location/Qualifiers
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/db_xref="taxon:9606"
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/mol_type="genomic DNA"
/db_xref="taxon:32644"
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Location/Qualifiers
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/mol_type≈"genomic DNA"
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S Matsushima,K., Hashimoto,S., Kaneko,S. and Yamashita,T. Human normal liver cell expression genes Patent: JP 2001211883-A 181 07-AUG-2001; SCIENCE & TECH AGENCY OS Homo sapiens (human) PD 07-AUG-2001 JP 200121183-A/181

PD 07-AUG-2001 JP 2000023170

PF 31-JAN-2000 JP 2000023170

PI KOJI MATSUSHIMA,SHINICHI HASHIMOTO,SHUICHI KANEKO,TAR
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Sequence
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AR058606
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1 (Dases 1 to 10)
Chee, M., Cronin, M.T., Fodor, S.P.A., Huang, X.X., Hubbell, E.A., Lipshutz, R.J., Lobban, P.E., Morris, M.S. and Sheldon, E.L. Arrays of nucleic acid probes on biological chips Patent: US 5837832-A 183 17-NOV-1998;
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PC C12N:
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Method and reagent for inhibiting P-glycoprotein (mdr-1-gene)

Patent: US 5989906-A 6 23-NOV-1999;

Location/Qualifiers
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                 The Johns Hopkins University 
Location/Qualifiers
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Patent: WO 0138577-A 876 31-MAY-2001;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Patent: WO 0138577-A 621 31-MAY-2001;
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Patent: WO 0138577-A 1214 31-MAY-2001;
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Location/Qualifiers
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Patent: WO 0138577-A 877 31-MAY-2001;
The Johns Hopkins University (US)
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BD007922
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OS Homo sapiens (human)
PN JP 2001069993-A/198
PD 21-MAR-2001
PF 28-APR-2000 JP 2000131079
PR
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LPS activated human monocyte
BD007922
BD007922.1 GI:18636295
JP 2001069999-A/198.
                                                                                                                                                                                                                                                                                                                           Matsushima, K., Hashimoto, S. and Suzuki, T. LPS activated human monocyte expressing genes Patent: JP 2001069993-A 198 21-MAR-2001;
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Homo sapiens
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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                                                                                                                                      33 Z C Z
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                                                                                                                                                                                                                  PI KOJI MATSUSHIMA,SHINICHI HASHIMOTO,TAKUJI SUZUKI PC
C12N15/09,C07K14/47,C07K16/18,G01N33/50,G01N33/53//A61K45/00,
                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 10)
Similarity
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                                                                                                                  /organism='Homo sapiens
                                                  /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleo Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

E 1 (bases 1 to 10)

S Matsushima, K., Hashimoto, S., Suzuki, T. and Nagai, S.
Human matured/activated dendritic cell expression genes
L Patent: JP 2001377993-A 134 27-NOV-2001;

JAPAN SCIENCE AND TECHNOLOGY CORP
OS Homo sapiens (human)
PN JP 2001377993-A/134
PD 27-NOV-2001
PF 22-MAY-2000 JP 2000150562
PF 22-MAY-2000 JP 200150562
PF 22-MAY-2000 JP 200150562
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PC A61P3
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1 (bases 1 to 10)

Matsushima, K., Hashimoto, S. and Suzuki, T.

LPS activated human monocyte expressing genes
Patent: JP 200106993-A 229 21-MAR-2001;

JAPAN SCIENCE AND TECHNOLOGY CORP

OS Homo sapiens (human)

PN JP 2001069993-A/229
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JP 2001327293-A/134.
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C12N15/09, C07K14/47, C07K16/18, G01N33/50, G01N33/53//A61K45/00,
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                                 C12N15/09, C07K14/47, C07K16/18//C12P21/02, C12P21/08, C12N15/00
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Pred. No. 63;
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Location/Qualifiers
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          Mammalia; Eutheria; Primates; Catarrhini; Hominid 1 (Dases 1 to 10)
Nagai,S., Matsushima,K. and Hashimoto,S.
Human activated Thi and Th2 cell expression genes
Patent: JP 2002186482-A 170 02-JUL-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; E
Mammalla; Eutheria; Primates; Catarrhini; Hominidae;
1 (bases 1 to 10)
Matsushima, K., Hashimoto, S., Suzuki, T. and Nagai, S.
Human matured/activated dendritic cell expression ger
Patent: JP 200132723A 229 27-NOV-2001;
JAPAN SCIENCE AND TECHNOLOGY CORP
OS Homo sapiens (human)
DN JP 2001327233-A/229
                                                                                                                            BD161348
BD161348.1 GI:27867106
JP 2002186482-A/170.
                                                                                                  Homo sapiens
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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JP 2001327293-A/229.
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JAPAN SCIENCE AND TECHNOLOGY
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KOJI MATSUSHIMA,SHINICHI HASHIMOTO,TAKUJI SUZUKI,SHIGENORI
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/db_xref="taxon:9606"
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PC C12N;
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FH Key
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N JP 2002186482-A/170

PD 02-JUL-2002

PF 19-DEC-2000 JP 2000385816

PF 19-DEC-2000 JP 2000385816

PF 19-DEC-2000 JP 2000385816

PF 18-HGENORI NAGAI, KOJI MATSUSHIMA, SHINICHI HASHIMOTO
C12N15/09, C07X14/47, CO7X16/18, C12P21/08, C12N15/00 CC H
activated Th1 and Th2 cell expression genes FH Key
Location/Qualifiers

FT source 1..10

FT source /organism='Homo sapiens (human)'.
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Matsushima, K., Hashimoto, S., Kaneko, S. at Human liver disease-expressing genes Patent: JP 2002209591-A 117 30-JUL-2002; JAPAN SCIENCE AND TECHNOLOGY CORP OS Homo sapiens (human)

PN JP 2002209591-A/117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human liver disease-expressing BD166572 BD166572.1 GI:27872384
BD167054
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Key Location/Qualifiers
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19-JAN-2001 JP 2001012328
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Location/Qualifiers
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/db_xref="taxon:32644"
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mol_type="genomic DNA"
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E54715
E54715.1 GI:22556198
JP 2001211883-A/67.
Homo sapiens (human)
Homo sapiens
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                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates; 1 (bases 1 to 10)
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JP 2002209591-A/599
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JP 2001211883-A/67
07-AUG-2001
31-JAN-2000 JP 2000023170
KOJI MATSUSHIMA,SHINIÇHI HA
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Key Location/Qualifiers
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KOJI MATSUSHIMA,SHINICHI HASHIMOTO,SHUICHI KANEKO,TARO
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                                                                             Location/Qualifiers.
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/mol_type="genomic DNA"
/db_xref="taxon:32644"
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          /db_xref="taxon:9606"
                                              organism="Homo sapiens"
                               _type="genomic
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Catarrhini; Hominidae
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Means and methods for treatment evaluation
Patent: EP 122533-A 15 24-JUL-2002;
Amsterdam Support Diagnostics B.V. (NL)
Location/Qualifiers
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Sequence 15 from Patent EP1225233.
AX482038
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                                                                                                                      /note="TAG sequence Hs74649 and 5 c 4 g 1 t
                                                                                                                                              /organism="synthetic construct"
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/db_xref="taxon:32630"
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/mol_type="genomic DNA"
/db_xref="taxon:32630"
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Homo sapiens (human)
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and Sanchez, Y.
Mammalian checkpoint genes and proteins
Patent: US 6307015-A 6 23-OCT-2001;
Location/Qualifiers
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Elledge, S.J. and Sanchez, Y.
Mammalian checkpoint genes and proteins
Patent: US 6218109-A 6 17-APR-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Methods of modulating tumor necrosis factor expression of cell adhesion molecules Patent: US 6114517-A 7 05-5EP-2000; Location/Qualifiers
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Monia, B.P. and Xu, X.S.
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Patent: US 613346-A 42.17-OCT-2000;
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Sequence 2 from Patent WO0134792.
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                                                              various cancers
Patent: WO 0134792-A 2 17-MAY-2001;
THE SECRETARY OF THE DEPARTMENT OF HEALTH
                                                                                                                                        artificial sequences.
                                                                                                                                                      synthetic construct
synthetic construct
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Patent: WO 0122972-A 311 05-APR-2001;
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                                                                                                      Compositions and methods
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/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
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/mol type="genomic DNA"
/db_xref="taxon:32630"
/note="Synthetic Sequence"
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/mol_type="genomic DNA"
/db xref="taxon:32630"
/noTe="Synthetic oligonucleotide~phosphorothioate
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13-AUG-1997 US 08/910629
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13-AUG-1997 US 08/910629
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NERO,WILLIAM A GAARDE
PC C1201/68,A61K31/7088,A61K48/00,A61P35/00,C12N15/09,C12P19/34,
PC C13N15/00
CC control sequence (sense)
FH Key Location/Qualifiers
FT source 1.20
FT source /organism='Artificial Sequence'.
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1 (bases 1 to 9)
Mauro, V.P., Edelman, G.M., Chappell, G.M.,
Krushel, L. and Zhou, W.
Synthetic internal ribosome entry sites
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                                                      artificial sequences
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Sequence 11 from Patent WO0160997.
AX224404
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                                                                                                                      Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD clade; Panicoideae; Andropogoneae; Zea.
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Biosciences Inc. (US)
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/mol_type="genomic DNA"
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AX224410
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Zea mays
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Zea mays
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BD007953 10 bp DNA lin LPS activated human monocyte expressing genes.
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Patent: WO 0138577-A 1215 31-MAY-2001;
The Johns Hopkins University (US)
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Sequence 1215 from Patent WO0138577.
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/mol_type="genomic DNA"
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LPS activated human monocyte expressing genes
Patent: JP 2001069993-A 229 21-MAR-2001;
JAPAN SCIENCE AND TECHNOLOGY CORP
OS Homo sapiens (human)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
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C12N15/09, C07K14/47, C07K16/18, G01N33/50, G01N33/53//A61K45/00,
A61P29/00,
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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/mol_type="genomic DNA"
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Sequence 13 from Patent W09947656.
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AX017438.1 GI:10042250
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Sequence 465 from Patent WO0130362.
AX129247
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/db_xref="taxon:9606"
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/mol_type="genomic DNA"
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AX668947/c
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M synthetic construct
Artificial sequences.
1 (bases 1 to 9)
1 Isalan,M. and Choo,Y.
Nucleic acid binding proteins
Patent: WO 9947656-A 13 23-SEP-1999;
MEDICAL RES COUNCIL (GB); ISALAN MARK
Location/Qualifiers
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                                                                                                            Sequence 23
AX668947
AX668947.1
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Sequence 12 from Patent WO0208436.
AX538878
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Mini-adenoviral vector system for vaccination Patent: WO 0208436-A 12 31-JAN-2002; Genstar Therapeutics Corporation (US)
                                                                       synthetic construct synthetic construct
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 Patent:
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                      Position dependent recognition of gnn nucleotide triplets by zinc
                                    Liu, Q.
                                                           artificial sequences
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WO 0242459-A 2396 30-MAY-2002;
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/mol_type="genomic DNA"
/db_xref_"taxon:2630"
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/mol_type="genomic_DNA"
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PD 05-MAR
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Choo, Y. and Isalan, M.
Nucleic acid binding proteins
Patent: JP 2002506640-A 4 05-N
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Nucleic acid binding proteins.
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Sequence 2397 from Patent W00242459
AX668948
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synthetic construct
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JP 2002506640-A/4.
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Sangamo Biosciences Inc. (US)
Location/Qualifiers
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           17-MAR-1999 JP 2000536839
17-MAR-1998 GB 9805576.7,31-MAR-1998
98-1998 GB 9807246.5
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JP 2002506640-A/4
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/db_xref="taxon:32630"
/note="example target DNA"
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2 c 3 g 3
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/db_xref="taxon:32630"
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AX623782/c
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AX471339/c
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                                                    Method for determining homeostasis of the sh
Patent: WO 02053774-A 823 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae
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                                         Location/Qualifiers
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/db_xref="taxon:9606"
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/mol_type="genomic DNA"
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Sequence 876 from Patent
AX152961
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7; Conserv
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AX631203
AX631203.1 GI:28459249
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Patent: WO 0138577-A 876 31-MAY-2001;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
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/mol_type="genomic DNA"
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Pred. No. 1.1e+02;
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les 8; Conserv
Non-human animal having modified foreign chromosomal or slice thereof. 83474
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                               Petersohn,D., Conradt,M. and Hofmann,K. Method for determining homeostasis of the skin Patent: WO 02053774-A 6548 11-JUL-2002;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Location/Qualifiers
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Patent: WO 0138577-A 877 31-MAY-2001;
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/mol_type="genomic DNA"
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artificial sequences.

Thore Tomizuka, K., Yoshida, H., Ishida, I. and Kuroiwa, Y.

LE Non-human animal having modified foreign chromosomal or slice
NAL Patent: JP 2001231403-A 6 28-AUG-2001;

KIRIN BEER KK
OS Artificial Sequence
PN JP 2001231403-A/6
PD 28-AUG-2001
PF 18-TT-
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THORS Tomizuka, K., Yoshida, H., Ishida, I. and Kuroiwa, Y.

T.E Non-human animal having modified foreign chromosomal or wall patent: JP 2001231403-A 6 28-AUG-2001;

KIRIN BEER KK

OS Artificial Sequence
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PF 10 --
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PN UP 2001231403-A/6
PD 28-AUG-2001
PF 18-FEB-2000 UP 2000042074
PI KAZUMA TOMIZUKA, HITOSHI YOSHIDA, ISAO ISHIDA, YOSHIMI KUROIWA PC A01K67/027, C12N5/10, C12N15/09// (C12N5/10, C12R1:91), (C12N15/09, PC C12R1:91),
C12R1:91),
PC C12N15/00, C12N15/00, (C12N5/00, C12R1:91), (C12N15/00, C12R1:91) CC Description of Artificial Sequence: SrfI linker PH Key Location/Qualifiers.
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I KAZUMA TONIZUKA, HITOSHI YOSHIDA, ISAO ISHIDA, YOSHIMI KUROIWA PC A01K67/027, C12N5/10, C12N15/09// (C12N5/10, C12R1:91), (C12N15/09, PC C12R1:91)

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            WPI; 1999-181060/15
                                                                                                           07-AUG-1998;
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                                                            (ISIS-)
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                                                                                                                                                                                                                                                                                                                                             AAX29331 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antisense; gene therapy; JNK2 protein; apoptosis; cancer; cellular hyperproliferation, Alzheimer's; Parkinson's disease; amylotrophic lateral sclerosis; retinitis; pigmentosa; epilepsy; myocardial infarction; stroke; obstructive jaundice; polycystic kidney; diabetes; Jun N-terminal kinase; ss.
The present invention relates to antisense oligonucleotides (AACG2844-C63000, AAA96093-A96099 and AAA07993) that hybridise specifically to a nucleotide encoding a Jun N-terminal kinase protein, resulting in decrease of JNK2 expression and leading (
                                                                                                                                                                                                                        Novel methods for reducing apoptosis comprising contacting cells with antisense oligonucleotides, useful for treating apoptotic disorders,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-APR-2000; 2000WO-US08880
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     expression of Jun N-terminal kinase proteins - useful for treating hyperproliferative diseases and inhibiting tumor growth in animals, and for modulating protein phosphorylation by these proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAC62874 standard;
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                                                                                                                                                                                                                                                                                                                  2000-638427/61
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  oligonucleotide. The oligonucleotides of the present invention are a for treating diseases or conditions with reduced apoptosis, e.g. can and cellular hyperproliferation. The oligonucleotides may also be us increase the stimulation of apoptotic proteins, e.g. for treating Alzheimer's or Parkinson's disease, amylotrophic lateral sclerosis, retinitis, pigmentosa, epilepsy, myocardial infarction, stroke, obstructive jaundice, polycystic kidney and diabetes. The present sequence may have a phosphorothioate backbone.
                                                                  induction of apoptosis. The present sequence is one such antisense oligonucleotide. The oligonucleotides of the present invention are useful for treating diseases or conditions with reduced apoptosis, e.g. cancer and cellular hyperproliferation. The oligonucleotides may also be used to increase the stimulation of apoptotic proteins, e.g. for treating Alzheimer's or Parkinson's disease, amylotrophic lateral sclerosis.
                                                                                                                                                                               The present invention relates to antisense oligonucleotides (AAC62844-C63000, AAA96093-A96099 and AAA07993) that hybridise specifically to a nucleotide encoding a Jun N-terminal kinase (UN protein, resulting in decrease of JNK2 expression and leading to
                   retinitis, pigmentosa, epilepsy, myocardial infarction obstructive jaundice, polycystic kidney and diabetes. sequence may have a phosphorothioate backbone.
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                                                                                                                                                                                                                                                                              Example 4; Page 135; 160pp;
                                                                                                                                                                                                                                                                                                                                  antisense oligonucleotides,
                                                                                                                                                                                                                                                                                                                                                     Novel methods for reducing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ISIS-) ISIS PHARM INC.
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Best Local
                                                                            Modulating cell adhesion molecule expression for treating immune or inflammatory diseases involves treating cell with specific inhibitor of Tumour Necrosis Factor alpha signalling molecule
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          signalling molecule. In the method Ha-ras, c-raf and c-Jun N-terminal
                             A novel method for modulating cell involves antisense inhibition of a
                                                                                                                                                                                                                                                                                                    modified_base
                                                                                                                                                                                                                                                                                                                                            modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                     tumour necrosis factor alpha; phosphorothioate; methoxyethoxy; sepsis; rheumatoid arthritis; inflammatory; immune disease; inflammatory bowel disease; allograft rejection; cancer; antibacterial; immunosuppressive; antipsoriatic; antidiabetic; antithyroid; cytostatic; dermatological; antiallergic; Ha-ras; c-raf;
                                                           Claim
                                                                                                                       WPI; 2000-423367/36.
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                                                                                                                                                             (ISIS-) ISIS PHARM INC
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                                                          Page 46; 100pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       oligonucleotide ISIS no.15354 to human JNK2 gene
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kinase (JNK) 2 were inhibited b
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                                                                                                                                                                                                                                                                                                                                                                                                              WPI;
                        The present invention relates to the use of J oligonucleotides for treating cancer and for mimic or augment the effect of JNK antisense for cancer. The present sequence is one such
                                                                                                                                                                                                     Claim 1;
                                                                                                                                                                                                                                                                                                        Use of Jun Kinase antisense mRNA for treating cancer by administering vector comprising promoter operably linked to DNA sequence that encod
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Potapova 0,
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-O-methoxyethyl oligonucleotide; MOE;
                                                                                                                                                                                                                                                                        antisense mRNA to patient
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                                                                                                                                                                                                     Page 41; 75pp; English.
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                                                                                                                                                                                                                                                                response. The method comprises administering an immunostimulatory nucleic acid to a non-rodent subject in sufficient quantity to stimulate an immune response. The present sequence is one such immunostimulatory nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma, haemophilus, campylobacter, clostridium, Escherichia coli and/or stability (and the stability) antigens and/or parasitic antigens. The method is stability of the stability of 
                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 101; Page 44; 338pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Vaccinating against tumors, infectious diseases, allergies and using immunostimulatory Py-rich and TG nucleic acids -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                     Th2 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Krieg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-SEP-1999;
27-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-APR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200122972-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic; immunostimulatory; tumour; viral infection; bacterial infection; fungal infection; parasitic infection; cancer; asthma; infectious disease; allergy; immune deficiency; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAF99183;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAF99183 standard; DNA; 20 BP
                                                                                                                                                                                                   also useful for preventing cancer, asthma, infectious disease, allergy immune deficiency. The present sequence can also be used to redirect a Th2 to a Th1 immune response and to activate immune cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-SEP-2000; 2000WO-US26383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (IOWA ) UNIV IOWA RES FOUND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Immunostimulatory nucleic acid #299.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (COLE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local
                                                                                                                                                                                  the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AM,
                                          20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20;
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                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COLEY PHARM GMBH.
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GTCCGGGCCAGGCCAAAGTC 20
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                                                                                                                                                                              present sequence may have a phosphorothioate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Schetter C,
                                            Conservative
                                                                                                                                 BP; 4 A; 7 C; 7 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention relates to a method for stimulating an immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000US-0227436
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99US-0156135.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%;
                                                               100.0%; Score 20; 100.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vollmer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 20;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                          Mismatches
                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
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                                                                                    Length 20;
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                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                backbone
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                                     Gaps
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                                                                                                                    Query Match
Best-Local S
Matches 20
                                                                                                                                                                                                                                               Sequence 20 BP; 4 A; 7 C; 7 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                   a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid rumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque novascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma and hypertrophic scars. The present sequence is an antiangiogenic nucleic acid of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Inhibiting angiogenesis in a subject, involves administering one antiangiogenic nucleic acid molecule to the subject -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             retrolental fibroplasia; rubeosis; Osler-Webber Syndrome; myocardial angiogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint; angiofibroma; wound granulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 2; Page 25; 276pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-DEC-2000; 2000US-25534P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200253141-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tumour metastasis; precancerous lesion; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Angiogenesis inhibitory oligonucleotide #311.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABS77827;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (COLE-) COLEY PHARM GROUP INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   intestinal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2002-566690/60
                                                                                                                    20;
                                                                                                                                                        Similarity
                                                             GTCCGGGCCAGGCCAAAGTC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   adhesion;
                                                                                                                           Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                    100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   atherosclerosis; scleroderma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20
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RESULT 9 ABL39057 ID ABL3

ABL39057 standard; DNA; 20

ВP

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RESULT 10
AAV60744
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Best Local S
Matches 20
                                                                                                                                                                                                                                                                                             breast cancer, cervical cancer, colon and rectum cancer, connective tissue cancer, oesophageal cancer, eye cancer, kidney cancer, larynx cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, non-Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, and uterine cancer. The present sequence is an immunostimulatory oligonucleotide described in
                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies. The methods are useful for
             08-DEC-1998
                                         AAV60744.;
                                                                                                                                                                                                                                                        Sequence 20 BP; 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Treating or preventing cancer, such as basal cell carcinoma, comprises administering immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies to a subject having or at risk of
                                                                   AAV60744 standard;
                                                                                                                                                                                                                                                                                    present sequence is an immunostimulat the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                   treating or preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 212; 312pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-154611/20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Weiner G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-JUN-2001; 2001WO-US20154
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antibody-induced cell lysis; cancer; immunostimulatory; CD20; angiogenesis; metastasis; cytostatic; phosphorothioate backbone;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (IOWA ) UNIV IOWA RES FOUND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22-JUN-2000; 2000US-213346P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Immunostimulatory nucleic acid SEQ ID NO: 463
                                                                                                                                                                                                  20;
                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                   bone cancer,
                                                                                                                                        GTCCGGGCCAGGCCAAAGTC 20
                                                                                                                                                                    GTCCGGGCCAGGCCAAAGTC 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hartmann G
                                                                                                                                                                                                Conservative
           (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note= "phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /mod
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          *tag=
                                                                                                                                                                                                                                                        A; 7 C; 7 G; 2 T; 0 other;
                                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                                                   ng cancer such as basal cell carcinoma, brain and central nervous system (CNS)
                                                                                                                                                                                                              100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            base= OTHER
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RESULT 11
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AAA828
AC AAA828
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DT 04-DEC
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DE Cdk4 r
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Ribozy
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                                                                                                                                                                                                                                                                                                                                                                                CC linked to codons 154-302 of the yeast PHO85 gene. The fusion protein is Cused to screen for compounds that affect mammalian cell cycle regulatory proteins. The method comprises administering a compound to a cell line, compound the construct of the compound to a cell compound to control factor compound to a cell compound to control factor compound to a cell compound that compound the cell line, compound affects the compound affects the compound cell cycle regulation. The method can be used to identify inhibitors and activators of cyclins, CDKs, cyclin/CDK complexes, cyclin kinase compound cell cycle regulatory proteins, especially inhibitors and cativators of cyclins, CDKs, cyclin/CDK complexes, cyclin kinase can be used for stimulating growth of cells (as in wound healing), or can be used for stimulating growth and division (as in cancer therapy).
                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 16
                                   cdk4 ribozyme binding site #60
                                                                      04-DEC-2000
                                                                                                          AAA82879
                                                                                                                                                                                                                                                                                                                                                                               Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Primers AAV60743-V60745 were used to PCR amplify codons 1-163 of the human cyclin-dependent kinase 4 (hCDK4). The amplified product was used to generate a fusion protein comprising part of the hCDK4 sequence linked to codons 154-302 of the yeast PHO85 gene. The fusion protein is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Screening for agents that effect cell cycle regulatory proteins using a cell line that expresses a reporter gene in response to regulation through phosphorylation by a cyclin/CDK system
                                                                                                                                           AAA82879 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 4; Page 75; 93pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1998-251302/22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27-NOV-1996;
16-OCT-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO9816660-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PCR primer; amplification; yeast; UAS; upstream activating sequence; transcription terminator; cell cycle; Upstream Activation Sequence; UAS; promoter; phosphorylation; cyclin; cyclin-dependent kinase; CDK; vector; cyclin kinase inhibitor; CKI; growth; wound healing; cancer therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (BITT-) BITTECH INC
                                                                                                                                                                                                                                     N
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                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                    CGGGCCAGGCCAAAGTC 20
                                                                                                                                                                                                                                                                                                                                                                             BP; 4 A; 6 C; 5 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                          Conservative
                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 96US-0031968.
96US-0029127.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97WO-US18608
                                                                                                                                             DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CDK4 codons 1-163.
                                                                                                                                                                                                                                                                                                                         77.0%;
                                                                                                                                             ВP
                                                                                                                                                                                                                                     18
                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                         Pred. No.
                                                                                                                                                                                                                                                                                                                                         Score 15.4;
                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                          10;
                                                                                                                                                                                                                                                                                                                                         DB 1;
                                                                                                                                                                                                                                                                                                        1.
                                                                                                                                                                                                                                                                                                                                         Length 18;
                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                        Gaps
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Ribozyme; hairpin; hammerhead; gene therapy; vasotropic;

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RESULT 12
AAH58041/c
ID AAH580
XX AAH580
XX AAH580
XX 10-SEP
XX 10-SEP
XX Cell-c
XX Human;
KW recogn
KW prolif
KW cytoki
KW antips
KW antips
KW antisi
KW antisi
KW antisi
KW antisi
KW basal
KW basal
KW basal
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XX Homo (
OS Homo (
OS Synth(
XX Homo (
OS Synth(
XX Homo (
OS Homo (
OS Synth(
XX Homo (
OS Homo (
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Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                matrix metalloproteinase; growth factor; reductase; scarring; cytostatic; antipsoriatic; dermatological, antiseborrheic; antidiabetic; virucide; antisickling; ophthalmological, keratolytic; gene therapy; viral wart; atopic dermatitis; actinic keratosis; squamous cell carcinoma; basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;
                                                                                                                                                                                                                                                                                                                                                                                                        recognition site; target; ribozyme binding site; eye disease; vulnerary; proliferative disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            designed to cleave RNA encoding a cyclin or cell-cycle dependent kinases CDK1, PCNA and Cyclin B1. Representative examples of ribozyme recognition sites are given in AAA82415 to AAA86787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells. The ribozyme is resistant to endonuclease activity and hence is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI;
                                                        03-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cell-cycle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 19
26-OCT-2000; 2000WO-US29500.
                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                  sickle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAH58041;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAH58041 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 53; 109pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New hairpin and hammerhead ribozyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      04-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 08-JUN-2000
                                                                                                        WO200130362-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (IMMU-) IMMUSOL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200032765-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             restenosis; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          encoding a cyclin or cell-cycle and Cyclin B1 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGCCAGGCCAAAGTC 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in restenosis treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Welch PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            dependent kinase cdk4 ribozyme binding site SEQ ID NO:465
                                                                                                                                                                                                                                               retinopathy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 1 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       invention relates to a hairpin or hammerhead ribozyme, cleave RNA encoding a cyclin or cell-cycle dependent cell-cycle dependent kinases CDKI, PCNA and Cyclin B1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98US-0110954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99WO-US28772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 75.0%; UT.
100.0%; Pr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6 C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Barber JR,
                                                                                                                                                                                                                                                  S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     G; 5 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Robbins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    dependent kinase other than CDK1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          for inhibiting restenosis, cleaves
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ϋ́
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         kinase
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В 5

0

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Matches
                                     Query Match
                                                                                                                                                     dependent kinase, growth factor or a reductase, or administering a nucleic acid molecule (II) comprising a promoter operably linked to a nucleic acid segment encoding (I). (I) can have antipsoriatic, dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling, ophthalmological, vulnerary, keratolytic and virucide activities, and cleaves RNA encoding cytokine involved in inflammation. (I) can be used in gene therapy. (I) and (II) are useful for treating proliferative skin diseases such as psoriasis, atopic dermatitis, actinic keratosis, squamous or basal cell carcinoma and viral or seborrheic wart. They can also be used for treating proliferative eye diseases such as diabetic retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of prematurity and retinal detachment, and for treating and preventing scarring such as keloid, adhesion and hypertrophic or hypertrophic burn
                                                                             Sequence 19 BP; 1 A; 6 C; 7 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Treating proliferative skin or eye diseases and scarring, using ribozymes that cleave RNA encoding cytokines involved in inflammat matrix metalloproteinases, growth factors and cell-cycle dependent
                                                                                                                 scar. AAH57577 to AAH62099 represent sequences used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                    skin or eye disease and scarring. The method involves admini ribozyme (I) which cleaves RNA encoding a cytokine involved inflammation, matrix metalloproteinase (MMP), cyclin, cell-cinflammation,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 105; 408pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Robbins JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-OCT-1999;
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                     Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2001-300427/31.
15;
                     Similarity
  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tritz R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99US-0161532.
                  75.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   describes a method for treating a proliferative nd scarring. The method involves administering a
0
                     Score 15;
Pred. No.
  Mismatches
                     DB 1;
15;
0,
                                        Length
Indels
                                                                                                                                                                                                                                                                                                                                                                                                                             cell-cycle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inflammation,
0
Gaps
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RESULT 13
AAX73494/c
ID AAX734
XX AAX734
XX AX734
XX Mouse
DT 28-JUL
XX Vascul
KW Fis-1;
KW fis-1;
KW fes-1i
KW foetal
XX Mus sp
XX Mus sp
XX W09715
XX W09715
XX PP 01-MAY
XX PF 25-OCT
XX PF 26-OCT
                                                                                                                                                                                     Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
                                                                                                                                                                                                                                                                                                                                      AAX73494
                                           25-OCT-1996;
                                                                         01-MAY-1997
                                                                                                    WO9715662-A2
                                                                                                                                                           foetal liver kinase 1; ss.
                                                                                                                                                                                                                                               Mouse flk-1 VEGF receptor hairpin ribozyme substrate #41
                                                                                                                                                                                                                                                                              28-JUL-1999
                                                                                                                                                                          fms-like tyrosine kinase 1; kinase
                                                                                                                                                                                                                                                                                                                                                                                                            19
                                                                                                                                                                                                                                                                                                                                                                                                                                      6 GGCCAGGCCAAAGTC
                                                                                                                                                                                                                                                                                                                                      standard; RNA; 18
                                                                                                                                                                                                                                                                             (first entry)
                                            96WO-US17480
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11-JAN-1996; 26-OCT-1995;

96US-0584040 95US-0005974

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RESULT 14
AAX71472/c
ID AAX714
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S
Matches 16
Nucleic acid molecule modulating VEGF receptor(s) gene expression mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid archritis; ocular disease; fms-like tyrosine kinase 1; kinase insert domain containing receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AXX67275 to AXX75752 represent specific examples of nucleic acid molecules from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VEGF). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour liver) (e.g. tumo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleic acid molecule modulating VEGF receptor(s) gene expmRNA stability - useful for treating e.g. tumour angiogen psoriasis, rheumatoid arthritis, etc., in a human patient
                                                                                                                                                                                                                                                                       11-JAN-1996;
26-OCT-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim
                                                                                                                                               Escobedo J,
                                                                                                                                                                                                                                                                                                                                                 25-OCT-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAX71472 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1997-259017/23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (CHIR )
                                                                                                                                                                                                                                                                                                                                                                                                                                               WO9715662-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                  (RIBO-)
                                                                                                                                                                                                                           (CHIR ) CHIRON CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KDR VEGF receptor hammerhead ribozyme substrate #484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4; Page 152; 218pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 CCGGGCCAGGCCAAAGTC 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CHIRON CORP.
RIBOZYME PHARM
                                                                                                                                                                                               RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
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be treated by administering the nucleic acid molecule or the expression
vector to the patient. AAX67275 to AAX75752 represent specific examples
of nucleic acid molecules from the present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CHIRON CORP.
RIBOZYME PHARM INC.
                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
CCGGGCCAGGCCAAA
                                                                                                                                                 17
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                                                                                                                                              BP; 1
                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                McSwiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
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95US-0005974.
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                                                                                                                                              Α,
                                                                  67.0%;
93.3%;
                                                                                                                                              5 C; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pavco
                                                 0;
                                                                                                                                            G; 5 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
                                                                       Score 13.4;
Pred. No. 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14;
Pred. No.
                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
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                                                                         25;
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19;
                                                                                               DB
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                                                                                             Length 17;
                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                              0,
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                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                   or more
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                                              0
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Degenerate PCR primer #2 used

to amplify DNA encoding

human chk1

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RESULT 18
AAS18424
ID AAS18
XX
AC AAS18
AC AAS18
XX
DT 12-MA
XX
DE Degen
XX
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AADO3853
ID AADO3
XX ADO3
XX ADO3
XX Cell
CCC The I
CCC 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
Matches 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence is a degenerate PCR primer used for amplifying the human cell cycle checkpoint protein, hchkl DNA. The cell cycle checkpoints are regulatory pathways that control the order and timing of cell cycle transitions, and ensure that critical events such as DNA replication and chromosome segregation are completed with high fidelity. The chkl protein controls cell cycle in response to DNA damage. It functions as kinase and phosphorylates the key regulators of Cdk tyrosine phosphorylation. The checkpoint gene sequences are used as probes for a portion of the chromosome associated with tumours and other malignancies, as well as growth and/or development deficiencies. The chkl proteins are useful for generating specific antibodies and for inhibiting growth of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New Chkl proteins and gene sequences encoding the proteins useful probes for a portion of the chromosome associated with tumors and malignancies, growth and/or development deficiencies -
                                                                                       12-MAR-2002
                                                                                                                                                                                                   AAS18424 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Elledge SJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            05-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US6218109-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA damage; kinase; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; cell cycle checkpoint; chkl; tumour; malignancy; cell growth inhibitor; development deficiency; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human cell cycle checkpoint protein, hchkl DNA amplifying PCR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (BAYU ) BAYLOR COLLEGE MEDICINE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                 GGCCAGGCCAAAGTC
                                                                                                                                                                                                                                                                                                                                                GGACAGGCCAAAGTC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCGGGCAAGGCCAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Column 24; 37pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 5 A; 4 C; 5 G; 3 T; 0 other;
                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sanchez Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            97US-0924183
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                                                                                                                                                                                                   DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               entry)
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                                                                                                                                                                                                   ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 13.4;
Pred. No. 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB
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RESULT 19
ABX16334
ID ABX16
XX ABX16
XX O8-AP
DT 08-AP
DX Human
XX Human
XX Human
XX Homo
XX US200
PN US200
XX 24-OC
XX 24-OC
XX 12-DE
PR 12-DE
PR 12-DE
PR (ELLE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  checkpoint (chk1) proteins and the nucleic acid sequences encoding them. Human chk1 (hchk1) maps to chromosome 11q24. Chk1 is involved in cellular responses to DNA damage, in the cell cycle checkpoint pathway. The protein is useful for generating specific antibodies and for inhibiting the growth of cells. The nucleotide sequence encoding the protein may be used as a probe for a portion of the chromosome associated with tumours and other malignancies, as well as growth and/or development deficiencies. The present sequence represents a degenerate PCR primer used to amplify DNA encoding human chk1 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New mammalian checkpoint protein and gene, for generating specific antibodies or for inhibiting the growth of cells, and for use as a probe for a portion of a chromosome associated with tumours or malignancies -
                                                                                                                US2002156247-A1
                                                                                                                                            Homo sapiens
                                                                                                                                                                                                              Human checkpoint gene Chk1 PCR primer #2
                                                                                                                                                                                                                                             08-APR-2003
                                                                                                                                                                                                                                                                                                    ABX16354 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 17 BP; 5
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                                                       12-DEC-2001; 2001US-0020038.
                                                                                                                                                                                   Human; checkpoint;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; Column 24; 39pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-040207/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-SEP-1997;
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                            12-JAN-2000; 2000US-0488364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to the isolation of human and mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US6307015-B1
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 (ELLE/) ELLEDGE S J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (BAYU ) BAYLOR COLLEGE MEDICINE
                                                                                                                                                                     primer;
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                                                                                                                                                                                                                                                                                                                                                                                         6 GGCCAGGCCAAAGTC 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                        88
                                                                                                                                                                                                                                           (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; 4 C; 5
                                                                                                                                                                                    chk1; anti-Chkl antibody; tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                               67.0%;
93.3%;
                                                                                                                                                                                                                                                                                                                                                                          17
                                                                                                                                                                                                                                                                                                      BP
                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 13.4;
Pred. No. 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB
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RESULT 20
AAX74910/c
ID AAX749
XX AAX749
XX AOX749
XX Wouse
AC AOX749
XX Wouse
KW Vascul
KW fik-1;
KW fims-1;
KW foetal
XX W09715
XX W09715
XX W09715
XX RIBO-
XX CCHIR
PA (RIBO-
XX RIBO-
XX Nuclei
PT Nuclei
PT Nuclei
PT Nuclei
PT PROPTI
XX Nuclei
PT PROPTI
XX CLaim
XX Claim
XX Claim
XX CThe pi
CC The pi
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local (
                                                               Nucleic acid molecule modulating VEGF receptor(s) gene expression mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
                                                                                                                                                                                                                                                                                                                                                                                       Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease; fms-like tyrosine kinase 1; kinase insert domain containing receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention describes an anti-Chkl antibody capable of specifically binding to an antigenic determinant on the proteins encoded by a sequence comprising 476 (3 sequences), 479, 496 or 513 amino acids. A new method is used to produce the antibody, which is useful for
                                        Claim 4;
                                                                                                                          WPI; 1997-259017/23.
                                                                                                                                                   Escobedo J,
                                                                                                                                                                                                                        11-JAN-1996;
26-OCT-1995;
                                                                                                                                                                                                                                                                25-OCT-1996;
                                                                                                                                                                                                                                                                                            01-MAY-1997
                                                                                                                                                                                                                                                                                                                      WO9715662-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mouse
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 17 BP; 5 A; 4 C; 5 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     detecting a Chkl protein that is associated with a tumour. This sequence represents a PCR primer used to isolate DNA encoding the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New anti-Chkl antibody, that may be a monoclonal or polyclonal antibody, useful for detecting a Chkl protein that is associat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-182651/18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Elledge SJ,
                                                                                                                                                                                                                                                                                                                                                                            foetal liver kinase 1; ss.
                                                                                                                                                                               (RIBO-)
                                                                                                                                                                                            (CHIR )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (SANC/) SANCHEZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                               flt-1 VEGF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         checkpoint protein Chk1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14;
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                                                                                                                                                                              CHIRON CORP.
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95US-0005974.
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present invention describes nucleic acid molecules which modulate synthesis, expression and/or stability of a mRNA encoding 1 or mo

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RESULT 21
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                                                        The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VSGF). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. ANX67275 to ANX75725 represent specific examples of nucleic acid molecules from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nucleic acid molecule modulating VEGF receptor(s) mRNA stability - useful for treating e.g. tumour psoriasis, rheumatoid arthritis, etc., in a human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (CHIR )
(RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid arrhritis; ocular disease; fms-like tyrosine kinase 1; kinase insert domain containing receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can
be treated by administering the nucleic acid molecule or the expression
vector to the patient. AAX67275 to AAX75752 represent specific examples
of nucleic acid molecules from the present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Escobedo J,
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26-OCT-1995;
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Best Local
                                                                                                                                                                                          The present invention relates to novel single nucleotide polymorphisms (SNPs) in the human Ran GTPase activating protein 1 (RANGAP1) gene located on chromosome 22q13.2-q13.31, and methods for haplotyping and/or genotyping the RANGAP1 gene. The methods of the invention make use of allele-specific oligonucleotides (ASOs) as probes and primers and/or primer-extension oligonucleotides for detecting the RANGAP1 gene polymorphisms. The polynucleotides for detecting the RANGAP1 series of diseases associated with RANGAP1 activity, such as cancer and other disorders associated with an irregular cell cycle. AAS19820 represent ASO primers for detecting human RANGAP1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; single nucleotide polymorphism; SNP; RANGAP1; haplotyping chromosome 22q13.2-q13.31; Ran GTPase activating protein 1; geno cancer; irregular cell cycle associated disorder; ASO; primer; s
                                                                                                                                                                                                                                                                                                                                                                                                    Claim 15;
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                                                                     Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             which involves the topical administration of an essentially adenosine free antisense oligonucleotide (ON) to the airway epithelium of the subject. The present sequence is an antisense oligonucleotide specific for chymase. The method can be used to treat airway diseases such as cystic fibrosis, asthma, chronic obstructive pulmonary disease, bronchitis and other airway diseases characterised by an inflammatory response. By eliminating adenosine from the antisense ON, its liberation upon antisense degradation is prevented, thereby preventing adenosine-induced bronchoconstriction in patients with hyper-reactive airways.
                    acute asthma; allergy; asthma; impeded respiration; respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary vasoconstriction; emphysema; chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma; colon cancer; breast cancer; lung cancer; pancreatic cancer; colon cancer; breast cancer; lung cancer; pancreatic cancer; colon cancer; breast cancer; lung cancer; pancreatic cancer; colon cancer; breast cancer; can
                                                                                                                                                                                                                                Antisense oligonucleotide; multiple target; antisense treatment; impaired respiration; inflammation; lung disease; pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAX54253 standard; DNA; 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 14 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A method for treating airway disease in a subject has been public involves the topical administration of an essentially
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 5; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1997-051871/05
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-JUN-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                   antisense oligonucleotide fragment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGGCCAGGCCAAAG 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       of airway diseases such as asthma - by topically applying -free antisense oligo:nucleotide to airway epithelium of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nyce JW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      59;
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RESULT 25
AAF19819/c
ID AAF19819;
XX AAF19819;
XC AAF19819;
XX I-MAR-200
XX Low adenos
KW Low adenos
KW human; atox
KW human; atox
KW surfactant

14-MAR-2001

(first

entry)

standard;

DNA; 14

Human chymase polynucleotide fragment #1386.

human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;

Low adenosine antisense oligonucleotide; phosphorothioate; allergy;

respiratory obstruction; pulmonary obstruction; impeded respiration;

pulmonary vasoconstriction; asthma;

surfactant hypoproduction;

밁

14

GGGCCAGGGCAAGG

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                                     Matches
                                                   Query Match
Best Local
                                                                                                                                                                                                         oligonucleotides (specifically AAX55180-271) can be used for the antisense treatment of diseases and conditions. Typical diseases and conditions are those associated with impaired respiration and inflammation, including lung diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis, acute asthma, allergies, asthma, imprespiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, pulmonary vasoconstriction, emphysema, chroniobstructive pulmonary disease (COPD), and cancers such as leukemias, chroniobstructive pulmonary disease (COPD), and cancers such as leukemias.
                                                                                                                                                                                                                                                                                                                                                        The specification describes antisense oligonucleotides (AAX52869-X55271) directed against at least 2 mRNAs selected from target genes, coding and non-coding regions of RNAs corresponding to target genes, gene initiation codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-end and the juxta-section between coding and non-coding regions and all segments of RNAs encoding proteins associated with one or more diseases, conditions or mixtures. The antisense oligonucleotides may be derived from sequences AAX55272-74. These multiple target
                                                                                                       Sequence 14 BP; 0 A; 8 C; 3 G; 3 T; 0 other;
                                                                                                                                        lymphomas, carcinomas e.g. colon cancer, breast cancer, lung cancer, pancreatic cancer, hepatcoellular carcinoma, kidney cancer, melanoma, pancreatic cancer, hepatcoellular all types of cancers which may metastasize or have metastasized to the lungs, including breast and prostate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 60; 120pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New antisense oligonucleotides used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1999-229400/19
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17-SEP-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      prostate cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            vasoconstriction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UYEC-) UNIV
                                     12;
 5 GGGCCAGGCCAAAG
                                                     Similarity
                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-0093972
97US-0059160
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                                                   54.0%;
85.7%;
 18
                                     0
                                                     Score
Pred.
                                     Mismatches
                                                     10.8;
No. 5
                                                         59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            treatment of,
                                                                        BB
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                                                                    Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pulmonary
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                                   Gaps
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RESULT 26
AAA33697/c
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                                                                                                                                                                                                                                                                                                       CC (I) can have respiratory, bronchodilator, antinificant of the communosuppressive, antiasthmatic, hypotensive and cytostatic activities. CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. CC that is an adversary of target polypeptides associated with CC lung/respiratory disorders and malignancies, such as stimulating and activating peptide factors and transmitters, transcription factors, immunoglobulins and antibodies, antibody receptors, cytokines and cc chemokines, endogenously produced specific and non-specific enzymes, binding proteins, adenosine receptors, bradykinin receptors, cytokine and cc chemokine receptors, adenosine receptors, bradykinin receptors, central creceptors. CNS and peripheral nervous and non-nervous system peptide transmitters, binding proteins and malignancy associated proteins. The cantisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction, and/or lung inflammation, allergy(les) cand/or surfactant hypoproduction which are associated with a disease or condition selected from pulmonary vasoconstriction, inflammation, allergy(les), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary transplantation rejection, pulmonary disease (COppl), pulmonary transplantation rejection, pulmonary infections, bronchitis, and construction and antisense oligonucleotides used in the exemplification of the present invention.
                                                                                                                                                                                                      Query Match
Best Local S
Matches 12
AAA33697;
                                  AAA33697 standard; DNA; 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
                                                                                                                                                                                                                                                                            Sequence 14 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           pulmonary hypertension; emphysema; pulmonary transplantation rejection; chronic obstructive pulmonary disease; pulmonary infection; bronchitis; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 14; Page 250; 1592pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-APR-1999;
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                                                                                                                               14
                                                                                                                                                                                                      12;
                                                                                                                                                                 5 GGGCCAGGCCAAAG 18
                                                                                                                                                                                                                       Similarity
                                                                                                                             GGGCCAGGGCAAGG
                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99US-0127958
                                                                                                                                                                                                                                                                            A; 8 C; 3
                                                                                                                                                                                                                     54.0%;
85.7%;
                                                                                                                                                                                                                                                                            G; 3 T; 0 other;
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                                                                                                                                                                                                                         Pred.
                                                                                                                                                                                                                                        Score 10.8;
                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                         No.
                                                                                                                                                                                                                         59;
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                                                                                                                                                                                                                                      Length 14;
                                                                                                                                                                                                    Indels
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Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothioate; impaired respiration; inflammation; allerg; phosphorothioate; impaired respiration; infilammation; allerg; allergic, bronchoconstriction; inhibitor; antiflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-205971/18
                                                                                                                                                                                                                                                                                                                                                                             Nyce JW;
                                                                                                                                                                                                                                                                                                                                                                                                                     03-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                        03-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200009525-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                  (UYEC-) UNIV EAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 adenosine
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antisense oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       lymphoma; carcinoma; metastasis; ss
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New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or Claim 18; Page 438; 1343pp; English

CC inflammation. The ON can have antinflammatory, antiallergic, contributed in the treatment of diseases associated with inflammation, contributed airways, including lung disease and diseases whose secondary confects afflict the lungs of a subject. They can be used for treating consistency, pulmonary vasoconstriction, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive carcinomas, and cancers which may metastasise to the lungs, including treats and prostate cancer. The reduction of the adenosine content of the ONs reduces side effects. The A-containing receptors causing concludes sequences given in the sequence listing from the present the invention, which correspond to SEQ ID NO:1 to 2815, and then the present convention. Nal Sequences given in the sequences. SEQ ID NO:11 to 1680 (AAA3232) to AAA33392) are specifically claimed ONs from the present convention. Nal Sequences given in the disclosure of the present convention. Nal Sequences given in the disclosure of the present convention. Nal Sequences given in the disclosure of the present convention. Nal Sequences given in the disclosure of the present convention. Nal Sequences given in the disclosure of the present convention. Nal Sequences given in the disclosure of the present convention. Nal Sequences given in the disclosure of the present convention which correspond to SEQ ID No:11 to 1680 (AAA3232) to AAA33392) are specifically claimed ONs from the present convention. Nal Sequences given in the disclosure of the present convention do not match up with their corresponding SEQ ID No: sequences given in the disclosure of the present convention. Nal Sequences given in the disclosure of the present convention which convention which convention which their corresponding SEQ ID No: sequences given in the disclosure of the present convention which convention which convention which convention the given in the disclosure of the present convention and the present convent The present invention describes a new composition comprising an antisense oligonucleotide (ON) with low adenosine (up to 15%), which targets nucleic acids involved in bronchoconstriction, allergies, and/or

Sequence 14 BP; 0 A; œ C; 3 G; 3 T; 0 other;

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Query Match
Best Local S
Matches 12
14
               U
                                       Similarity
GGGCCAGGGCAAGG
               GGGCCAGGCCAAAG 18
                               Conservative
                                      54.0%;
85.7%;
                              0
                                      Score 10.8;
Pred. No. 5
                                               BG
                                               1.
                              2
                                              Length 14;
                              0
                              Gaps
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0

망 á

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RESULT 28
AAZ41739
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AAZ41523
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                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 11
                                                                                                                                                                                                                                                                                                                                                                                 A method has been developed for the amplification of a DNA fragment in which amplification is carried out on the DNA fragments of a number of different DNAs. The method comprises a PCR reaction repeatedly carrying out a heat-denaturing step, a primer annealing step and a polymerase extending step, to amplify the DNA fragments of a plural of different DNAs. The method can detect the existence of a microbe in organic waste. AAZ41424 to AAZ41639 represent PCR primers used in random amplified AAZ41620 Tepresent PCR primers used in random amplified to AAZ41630 represent PCR primers used in random amplified.
                                             Amplification; polymerase chain reaction; PCR; microorganism; compost; detection; pollucant; soil; food; agricultural chemical; polymer; organochlorine; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Microbe; detection; organic waste; arbitrarily primer νικ; random amplified polymorphic DNA; amplification; PCR primer; ss.
DE19914461-A1
                       Synthetic
                                                                                             Organic material detecting primer 100
                                                                                                                        20-MAR-2003
21-JAN-2000
                                                                                                                                                            AAZ41739;
                                                                                                                                                                                                                                                                                                                                                 Sequence 12 BP; 3 A; 4 C; 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Amplification of a DNA existence of a microbe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JP11276176-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Microbe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAZ41523 standard; DNA; 12
                                                                                                                                                                                   AAZ41739 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1999-626940/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (SAOL )
(NORI-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAZ41523;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Page 9; 40pp; Japanese
                                                                                                                                                                                                                                                                                                 11;
                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                           waste.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        detection in organic waste arbitrarily primed PCR primer #100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SANYO ELECTRIC CO LTD. ZH NORIN SUISAN SENTAN
                                                                                                                                                                                                                                                 CAGGCCGAAGTC 12
                                                                                                                                                                                                                                                                       CAGGCCAAAGTC 20
                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                      (updated)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98JP-0087652.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98JP-0087652
                                                                                                                                                                                   DNA;
                                                                                                                                                                                                                                                                                                             52.0%;
91.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     fragment
                                                                                                                                                                                   12
                                                                                                                                                                                                                                                                                                                                                 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                 Pred. No. 50;
); Mismatches
                                                                                                                                                                                                                                                                                                                       Score 10.4;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       order to
                                                                                                                                                                                                                                                                                                                       DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      establish
                                                                                                                                                                                                                                                                                                                       Length 12;
                                                                                                                                                                                                                                                                                                 Indels
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                                                                                                                                                                                                                                                                                               Gaps
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RESULT 29
AAC97874
ID AAC97
XX AAC97
XX AAC97
XX AAC97
XX Prime
XX Prime
XX Prime
XX Prime
XX Synth
XX JP200
XX JP200
XX I9-M2
XX I9-M2
XX I9-M2
XX I9-M2
XX WPI;
XX WPI;
XX WPI;
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This invention describes a novel method for the amplification of DNA comprising (i) preparing many primers (p) with different probabilities of amplification and (ii) simultaneous polymerase chain reaction (PCR) of many different DNA using these primers. The method is used (i) to differentiate between different microorganisms in a mixed population
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          particular use is monitoring composting of organic material.

Amplification with many primers produces a lot of information, so reliability of the test is improved, and many samples may be tested quickly. AAZ41640-Z41855 represent the primers described in the method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and (ii) to determine presence/absence of an impurity (pollutant), or its concentration, in e.g. soil, foods, compost etc., typically metal agricultural chemicals, polymers, organochlorine compounds etc. A
             WPI; 2001-011047/02
                                                                                 19-MAR-1999;
                                                                                                                                        03-OCT-2000
                                                                                                                                                                   JP2000270867-A
                                                                                                                                                                                              Synthetic
                                                                                                                                                                                                                      Primer; amplification;
                                                                                                                                                                                                                                                   Primer used to illustrate DNA amplification method SEQ ID 100
                                                                                                                                                                                                                                                                               28-FEB-2001
                                                                                                                                                                                                                                                                                                          AAC97874;
                                                                                                                                                                                                                                                                                                                                    AAC97874 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 12 BP; 3 A; 4 C; 4 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 quickly. AAZ41640-Z41855 represent the primers of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 1; Page 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel polymerase chain reaction method, microorganisms and for detecting contami
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1999-592157/51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-MAR-1998;
16-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-OCT-1999
                                                                                                            19-MAR-1999;
                                        (SAOL ) SANYO ELECTRIC CO LTD.
(NORI-) ZH NORIN SUISAN SENTAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (SAOL ) SANYO ELECTRIC CO LTD. (NORQ ) SOC TECHNO-INNOVATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                              11;
                                                                                                                                                                                                                                                                                                                                                                                                                                    9 CAGGCCAAAGTC 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                          CAGGCCGAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                                                             (first entry)
                                                                                 99JP-0076844.
                                                                                                            99JP-0076844
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99JP-0069694.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99DE-1014461.
                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            78pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             52.0%;
91.7%;
                                                                                                                                                                                                                         selective;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
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Pred. No. 5
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                                          GIJUTSU SANGYO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          contaminants
                                                                                                                                                                                                                         88
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB
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RESULT 30
AAZ81584/c
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This invention relates to a method for amplifying a DNA fragment. The method comprises successive repetitions of heat-denaturing, annealing of a primer and an extending step using a DNA polymerase. The method makes use of a cDNA pool in which the primer is one primer or a pair of primer sets and has an amplification probability which allows it to amplify a DNA fragment from a limited number of the cDNAs among the DNA pool (where the limited number is in the range of 1 to 25). Also included in the invention are apparatus used for carrying out the method, a primer and a DNA polymerase and a kit used for amplifying a DNA fragment. The method can be used to amplify a limited number of cDNAs from a pool in which a wide variety of cDNAs are present. Oligonucleotides AAC97775 - AAC97990 represent primers used in an example illustrating the method of
AAZ80767 to AAZ83941 represent tags transcripts that are preferentially
                                        Claim 1; Page 80; 219pp;
                                                                                                                                                                                                                                                                                                                                                                                                                          non-metastatic breast tumour tissue; gene therapy; anticancer; antimetastatic; vaccine; diagnosis; ss.
                                                                    prevention
                                                                                 Isolated polynucleotides differentially and non-metastatic breast cancer cells,
                                                                                                                                                                                                                                                                                                                  18-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                      WO9965928-A2
                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; metastatic breast tumour tissue; breast cancer; tag; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Metastatic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAZ81584 standard; DNA; 10 BP
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                                                                                                                          WPI; 2000-106079/09
                                                                                                                                                     Roberts
                                                                                                                                                                                                         (GENZ
                                                                                                                                                                                                                                                                                                                                            23-DEC-1999
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                                                                                                                                                                              (SHAN/)
                                                                                                                                                                                                                                                  19-JUN-1998
19-JUN-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11;
                                                                                                                                                                             GENZYME CORP.
ROBERTS B L.
SHANKARA S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9 CAGGCCAAAGTC 20
                                                                                                                                                   ΒĽ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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                                                                    and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                   Shankara
                                                                                                                                                                                                                                 98US-0089853.
98US-0089997.
98US-0090039.
98US-0090040.
98US-0090041.
                                                                    treatment
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tumour
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91.7%;
                                                                                                                                                   ŝ
                                          English.
                                                                   of cancer
                                                                                                                                                                                                                                                                                                                                                                                                                         diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cell upregulated transcript
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Japanese
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Pred. No. 50;
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 corresponding to distinct transcribed in the metastatic breast
                                                                              expressed between metastatic useful for diagnosis,
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RESULT 31
AAZ86676/c
ID AAZ8666
XX AAZ8666
XX Metast
XX Metast
XX Human;
KW Homo s
XX Homo s
XX Homo s
XX Homo s
XX Homo s
YX Homo s
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AZES 342 to AZES 6677 represent tags corresponding to distinct transcripts chat are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis. Compounds that modulate cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Folyapptides encoded by the transcripts are also useful in vaccines for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polyapptides or as therapeutic agents. Host cells that produce the polyapptides can be used to expand and isolate populations of educated, antigen-specific immune effecter cells, e.g. cytotoxic T lymphocytes, and these used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 10
                                                              prevention and
                                                                                   Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis,
                                                                                                                                                                                          Roberts
                                                                                                                                                                                                                                                        (GENZ )
(ROBE/)
                                                                                                                                                                                                                                                                                                                                                                           19-JUN-1998;
19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO9965928-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antimetastatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; metastatic breast tumour tissue; breast cancer; tag; pr
non-metastatic breast tumour tissue; gene therapy; anticancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Metastatic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-APR-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAZ86676 standard; DNA; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tumour tissue (i.e. are upregulated in metastatic AAZ83942 to AAZ86677 represent tags corresponding
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19-JUN-1998;
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                                                                                                                                                                                                                                SHANKARA S.
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                                                                                                                                                                                       Shankara
                                                              atic breast cancer cells,
treatment of cancer -
                                                                                                                                                                                                                                                                                                                                    98US-0090039
98US-0090040
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98US-0089997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vaccine; diagnosis; ss
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Claim 1;

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RESULT 32
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Matches 10
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The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1570/c
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                                                                                                                                Claim
                                                                                                                                                                                        New isolated polynucleotides, useful type, such as cancer cell, comprises
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human;
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                                                                                                                                                                                                                                                                                               Velculescu
                                                                                                                                                                                                                                                                                                                                                                              24-NOV-1999;
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                                                                                                                          13; Page 71; 94pp; English
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RESULT 33
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                                                                                                                                                                                                           Sequence 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAH64571;
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                                                                                                        Conservative
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ABZ72939;

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(AAV) rectored ribozyme composition (1). (1) comprises: (a) at least a first ribozyme that specifically cleaves an mRNA encoding a protein, polypeptide, or peptide selected from the group of rod opsin, iNOS, RDS/peripherin, VEGFR1, VEGFR2, adenosine A-2B receptor, IGF-1, integrin alpha 1, integrin alpha 5, or integrin alpha V; (b) a vector comprising a polynucleotide encoding the ribozyme, where the polynucleotide operably positioned downstream of at least a first promoter that directs expression of the polynucleotide in a selected mammalian cell transformed with the vector; (c) a viral particle comprising the ribozyme or the polynucleotide; (d) an AAV vector comprising the ribozyme or the polynucleotide; or (e) a host cell for decreasing the amount of mRNA encoding a selected polypeptide in a retinal cell of a mammalian eye, comprising providing to the eye the composition described above, and for a time effective to specifically cleaves the mRNA in the cell. (I) has ophthalmological activity, and can be used in gene therapy. (I) can be used for treating a disease or retinal disease or retinal
                                                         Matches
                                                                             Query Match
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                                                                                                                                                                                       dysfunction, (diabetic) retinopathy, or (age-related) macular degeneration. (I) is also useful for manufacturing a medicament for treating the diseases mentioned above, including autosomal dominant retinitis or a blood-retinal barrier dysfunction. (I) can also be useful for treating, decreasing the severity, or ameliorating the symptoms of a pathological condition, e.g. atrophic or pigmented lesions of the eye, blindness, a reduction in central or peripheral vision, or a reduction in total vision. AEZ72763 to AEZ72953 represent sequences used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A recombinant adeno-associated virus-vectored ribozyme composition, useful for treating a disease or dysfunction of the mammalian eye retinal disease, e.g. diabetic retinopathy or age-related macular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                target; ophthalmological; gene therapy; eye; retinal dysfunction; AAV; diabetic retinopathy; macular degeneration; autosomal dominant retinitis; blood-retinal barrier dysfunction; adeno-associated virus; blindness; ss.
                                                                                                                                     Sequence
                                                                                                                                                                           exemplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes a recombinant adeno-associated virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 5;
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6 GGCCAGGCCA 15
                                                                             Similarity
                                                                                                                                     12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Shaw LC,
                                                                                                                                     BP; 3
                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                 A; 4 C; 4 G; 1 U; 0 other;
                                                                                                                                                                         the present
                                                   100.0%;
                                                                                             50.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Grant MB
                                                                           Score 10; DB 1;
Pred. No. 61;
                                                                                                                                                                           invention.
                                                           Mismatches
                                                         0
                                                                                             Length 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         retinal disease;
                                                         Indels
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AAA04950/ ID AAAC XX

AAA04950 standard;

DNA;

13

RESULT 36

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AAV63772/c
ID AAV6377
XX
AC AAV637
XX
AC AAV637
XX
DE Human
XX
JAGGED
KW JAGGED
KW JAGGED
KW JAGGED
KW WO9858
XX
PFT Key
FT mutati
FT WUTATI
PT CUNIW
XX (UNIW
XX (UN
В
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                                                                                                                   Best Loc
Matches
                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                         This nucleotide corresponds to a portion of exon 23 of the human JAGGED1 gene that is mutated in affected individuals of an Alagille syndrome (As) family. The mutation involves insertion of 'GTGGC' residues at a position corresponding to nucleotide 3102 (see AAV63773) of an hJAGGED1 cDNA (see AAV63753). The mutation causes a frameshift that results in premature truncation of the gene product (see AAW87904). It was detected by heteroduplex mobility analysis (see AAW87767-68 and AAW84310-19). hJAGGED1 (see also AAW87894) is a novel Notch ligand capable of inhibiting the differentiation of haematopoietic progenitor cells. Methods are provided for the diagnosis of AS based on detection of disease-associated mutations.
                                                                                                                                                                                                                                            Sequence 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JAGGED; JAGGED1; hJAGGED1; human; notch ligand; stem cell;
progenitor cell; haematopoiesis; cell differentiation; mutant;
Alagille syndrome; leukaemia; lymphoma; diagnosis; therapy; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 5; Fig 8; 101pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         state, e.g. for haematopoietic reconstitution
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New Jagged peptides for inhibiting differentiation of progenitor cells - also used for maintaining these cells in undifferentiated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1999-081220/07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30-DEC-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mutation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human JAGGED1 exon 23 mutation associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26-APR-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (CHIL-) CHILDRENS HOSPITAL PHILADELPHIA.
                                                                                                                                                      Local
                                                         5 GGGCCAGGCCAAA 17
                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Krantz ID,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGCCAGGCCA
                                                                                                                                                                                                                                                                                                      or truncated hJAGGED1 gene
                                                                                                                                                                                                                                            BP; 0 A; 4 C; 6 G; 3 T; 0 other
                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98WO-US13207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag=  a
/note= "5-base insertion"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
                                                                                                                                                   49.0%;
84.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12
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                                                                                                                                                                                Score 9.8;
                                                                                                                                                      Pred. No.
                                                                                                                         Mismatches
                                                                                                                                                      81;
                                                                                                                                                                                   DB
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                                                                                                                                                                                Length 13;
                                                                                                                      Indels
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AAA04950

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RESULT 37
AAA05213/c
ID AAA052
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XXXXXXX
                                                                                                                                                                                                                                                                                                                                                            The present invention describes a method for preparing an antisense coligodeoxynuclectide (ODN) sequence for blocking translation of a specific protein isoform that can be expressed as a number of different isoforms. AAA04712 to AAA05243 represent specifically claimed phosphorothioate antisense ODNs for blocking translation of Tenascin-C using the method of the invention. The method is useful for preparing an ODN sequence for blocking translation of a specific isoform of Tenascin-C protein. The method is also useful for blocking translation of a specific family of isoforms of a protein. The method can also be performed by producing a long antisense expression vector encoding a long antisense RNA sequence for blocking translation of a specific protein isoform. The ODNs and long antisense constructs are useful in designing models for studying cellular development and differentiation. The method permits selective inhibition of the translation of protein isoforms, which occur as a result of alternative splicing. AAA05244 represent an oligonuclectide from the present invention, which is given in the sequence listing but not mentioned further within the
                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; Tenascin-C; extracellular matrix protein; phosphorothioate; antisense oligonucleotide; inhibition; exon deletion; therapy; cellular development; differentiation; translation; ss.
          Tenascin-C phosphorothioate antisense oligonucleotide SEQ ID NO:502
                                             18-MAY-2000
                                                                                                          AAA05213 standard; DNA; 13
                                                                                                                                                                                                                                                                                                                    Sequence 13 BP; 0 A; 5 C; 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Preparing antisense oligodeoxynucleotides (ODNs) and long antisense sequences useful for blocking translation of a specific isoform of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fillmore H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-JUL-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23-JUL-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23; Page 102; 177pp; English
                                                                                                                                                                                          13
                                                                                                                                                                                                                                                      11;
                                                                                                                                                                                                                       δ
                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                          GGCCAAGCCGAAG 1
                                                                                                                                                                                                                       GGCCAGGCCAAAG 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein
                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Broaddus WC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                           (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99WO-US16632
                                                                                                                                                                                                                                                                    49.0%;
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                                                                                                                                                                                                                                                                                                                    G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  antisense oligonucleotide SEQ ID NO:239
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                                                                                                                                                                                                                                                                    Score 9.8;
Pred. No. !
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                                                                                                                                                                                                                                                                                    DB 1;
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                                                                                                                                                                                                                                                                                   Length 13;
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ABC48592/c
ID ABC485
XX
AC ABC485
XX
AC ABC485
AC Oligon
DE Oligon
XX
XX
XW SNP; s
KW peptid
KW centra
XX
XX
XX
OS Homo s
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 38
                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local 9
                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       or a specific family of isoforms of a protein. The method can also be performed by producing a long antisense expression vector encoding a long antisense expression vector encoding a long antisense expression. The object of a specific protein isoform. The ODNs and long antisense constructs are useful in designing models for studying cellular development and differentiation. The method permits selective inhibition of the translation of protein isoforms, which occur as a result of alternative splicing. AAA05244 represent an oligonucleotide from the present invention, which is given in the semiparce listing but not meriance for the present invention.
                                                      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             specific protein isoform that can be expressed as a number of different isoforms. AAA04712 to AAA05243 represent specifically claimed phosphorochioate antisense oDNs for blocking translation of Tenascin-C using the method of the invention. The method is useful for preparing an ODN sequence for blocking translation of a specific isoform of Tenascin-C protein. The method is also useful for blocking translation of a specific family of isoforms of a protein. The method can also be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; Tenascin-C; extracellular matrix protein; phosphorothioate; antisense oligonucleotide; inhibition; exon deletion; therapy; cellular development; differentiation; translation; ss.
                     Homo sapiens
                                                                                                                                Oligonucleotide SEQ ID NO 48609 for detecting SNP TSC0013829
                                                                                                                                                                    21-FEB-2002
                                                                                                                                                                                                         ABC48592
                                                                                                                                                                                                                                              ABC48592 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes a method for preparing an antisense oligodeoxynucleotide (ODN) sequence for blocking translation of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Preparing antisense oligodeoxynucleotides (ODNs) and long antisense RNA sequences useful for blocking translation of a specific isoform of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fillmore H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27-JUL-1998;
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Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (UYVI-) UNIV VIRGINIA COMMONWEALTH
                                                                                                                                                                                                                                                                                                                                         13
                                                                                                                                                                                                                                                                                                                                                                                                                 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence listing but not mentioned further within the
                                                                                                                                                                                                                                                                                                                                                                          6 GGCCAGGCCAAAG 18
                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                         GGCCAAGCCGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 167; 177pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 0 A; 5 C; 4 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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                                                                                                                                                                    (first
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                                                  acid; cytosine methylation;
system; gastrointestinal; re
                                                                                                                                                                                                                                                                                                                                                                                                                                 49.0%;
                                                                                                                                                                    entry
                                                                                                                                                                                                                                              ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 9.8;
                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABH32073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at fip.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Set of oligonucleotides, useful for diagnosis and cell typing, designed to detect single nucleotide polymorphisms and cytosine methylation status
                         Olek A,
                                                                                                                                                                                                                  peptide nucleic
central nervous
                                                                                                                                                                                                                                                                        Oligonucleotide
WPI; 2001-657177/75
                                                                                                         06-APR-2001; 2001WO-IB00713.
                                                                                                                                      18-OCT-2001.
                                                                                                                                                              WO200177384-A2
                                                                                                                                                                                                                                                                                                   21-FEB-2002
                                                                                                                                                                                                                                                                                                                                                       ABC48593 standard; DNA; 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 13 BP; 1 A; 1 C; 6 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; SEQ ID 48609; 29pp + Sequence Listing; German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Olek A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-APR-2000; 2000DE-1019173
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                                                                                                                                                                                         Homo sapiens
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                                                                                                                                                                                                                 single nucleotide polymorphism; human; diagnosis; PNA; ide nucleic acid; cytosine methylation; cardiovascular; ral nervous system; gastrointestinal; respiratory; immur
                                                                                                                                                                                                                                                                                                                                                                                                                           13
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                                                     EPIGENOMICS AG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EPIGENOMICS AG
                         Piepenbrock C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCAGGCCAAAGTC 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Piepenbrock C, .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                2000DE-1019173
                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                        SEQ
                                                                                                                                                                                                                                                                     ID NO 48610 for detecting SNP TSC0013829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          49.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 9.8;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                             primer; cns;
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Best Local S
Matches 11
                                                                                                                                                                                                                                                      28-SEP-1998;
13-FEB-1998;
26-AUG-1998;
This invention describes a novel non-MRL healer mouse (M) having at least one quantitative trait locus selected from those given in the specification, exhibiting an enhanced healing response to a wound compared to mice (m) without the locus. The invention describes a numethod of identifying a gene involved in enhanced wound healing by
                                                                                                                                                                                                                                                                                                                                                                                                          Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         oligomers are also used for detecting cell type differentiation. ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI000100-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the prin specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The
                                                                                                                                                                                                                                                                                                                                                                                                                                   Wound healing; non-MRL healer mouse; quantitative trait loc
healing response; microsatellite marker; treatment; central
peripheral nerve; nerve injury; SAGE tag; murine; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Set of oligonucleotides, useful for diagnosis and cell designed to detect single nucleotide polymorphisms and methylation status
                                                                                          Claim
                                                                                                                                    New mammalian model for enhanced wound healing
                                                                                                                                                                   WPI; 1999-494533/41
                                                                                                                                                                                                                                                                                                                                                 19-AUG-1999
                                                                                                                                                                                                                                                                                                                                                                             WO9941364-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Murine MRL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAZ19014;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAZ19014 standard; DNA; 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; SEQ ID 48610; 29pp + Sequence Listing; German
                                                                                                                     identifying
                                                                                                                                                                                                                                                                                                                    12-FEB-1999;
                                                                                                                                                                                                                              (WIST-) WISTAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            invention describes novel oligonucleotide primers or peptide nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ထ
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                                                                                         Page
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SAGE tag
                                                                                                                     enhanced wound healing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                      98US-0102051.
98US-0074737.
98US-0097937.
                                                                                         74; 136pp; English
                                                                                                                                                                                                                                                                                                                    99WO-US02962
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84.6%;
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Pred. No. 81;
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                                                                                                                      genes
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tral nerve;
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RESULT 41
AAX55034/c
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non-coding regions of RNAs corresponding to target genes, gene initiation codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-end and the juxta-section between coding and non-coding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pulmonary hypertension; pulmonary vasoconstriction; emphysema;
chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma;
colon cancer; breast cancer; lung cancer; pancreatic cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antisense oligonucleotide; multiple target; antisense treatment; impaired respiration; inflammation; lung disease; pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                                                                 The specification describes antisense oligonucleotides directed against at least 2 mRNAs selected from target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               09-JUN-1998;
17-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                acute asthma; allergy; asthma; impeded respiration; respiratory distress syndrome; pain; cystic fibrosis;
                                                                                                                                                                                               Disclosure; Page 70; 120pp;
                                                                                                                                                                                                                                                                 vasoconstriction
                                                                                                                                                                                                                                                                                       New antisense oligonucleotides used in treatment of, e.g. pulmonary
                                                                                                                                                                                                                                                                                                                                                            WPI; 1999-229400/19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-SEP-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hepatocellular carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (UYEC-) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cancer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
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97US-0059160.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 T;
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                                                                                                                                  (AAX52869-X55271)
      and non-coding
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RESULT 42
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         pulmonary hypertension, pulmonary vasoconstriction, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g. colon cancer, breast cancer, lung cancer, pancreatic cancer, hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, as well as all types of cancers which may metastasize or have metastasized to the lungs, including breast and prostate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     regions and all segments of RNAs encoding proteins associated with one or more diseases, conditions or mixtures. The antisense oligonucleotides may be derived from sequences MX55272-74. These multiple target oligonucleotides (specifically AAX552180-271) can be used for the antisense treatment of diseases and conditions. Typical diseases and conditions are those associated with impaired respiration and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Low adenosine antisense oligonucleotide; phosphorothioate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory;
                                            Claim
                                                                                        Low adenosine (A) content antisense oligonucleotides which trigger adenosine receptors during metabolism, useful e.g.
                                                                                                                                        WPI; 2000-679539/66.
                                                                                                                                                                       Nyce JW,
                                                                                                                                                                                                                                                     06-APR-1999;
                                                                                                                                                                                                                                                                                   24-MAR-2000; 2000WO-US08020
                                                                                                                                                                                                                                                                                                                  26-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                            surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 11 BP; 0 A; 6 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       inflammation, including lung diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis, acute asthma, allergies, asthma, respiration, respiratory distress syndrome, pain, cystic fibrosis,
                                                                                                                                                                                                     (UYEC-) UNIV EAST CAROLINA (NYCE/) NYCE J W.
                                                                                                                                                                                                                                                                                                                                                 WO200062736-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                chronic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human C/EBP polynucleotide fragment #2170
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90.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 9.4;
                                                                                                                                                                                                                                                                                                                                                                                                                              disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                             pulmonary infection; bronchitis;
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for treating
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oligonucleotides The present

invention describes low adenosine (A)

compositions (I)

comprising

content them. In

the antis

antisense

oligonucleotides the A is replaced by a 'Universal' or alternative base (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,

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AAC63229
ID AAC6
XX AAC6
XX O6-E
XX O1ig
XX PCR
XX PCR
XX PCR
XX HOMM
PR 05-1
XX O5-1
XX GEB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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Best Local
                                                          Determining Tm range for several degenerate primers with a fixed-sequence and a degenerate-sequence portion for use in polymerase chain reaction amplification by identifying a specific sequence in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pulmonary transplantation rejection, pulmonary infections, bronchitis, and/or cancer. AAF18434 to AAF21543 represent human polynucleotide fragments and antisense oligonucleotides used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                condition selected from pulmonary vasoconstriction, inflammation, altergies, asthma, impeded respiration, respiratory distress syndrome (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), hypertension, emphysema, chronic obstructive pulmonary disease (COPD).
                                                nucleic
                                                                                                                                                                                                                                                                                                             06-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-FEB-2001
                                                                                                                                                                                                                                                                                                                                                      05-APR-2000; 2000WO-US08962
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200060123-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCR primer; nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAC63229 standard; DNA;
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                                                                                                                                                                                                                                                              (GENO-) GENOME
                                                                                                                                                                 2000-656235/63
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention.
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                                            template
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                            TECHNOLOGIES LLC
                                                                                                                                                                                                                                                                                                          99US-0127891.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #2 used in a method for primer selection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    acid amplification; melting temperature; T_m; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       47.0%;
90.9%;
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C;
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Disclosure; Fig 2; 34pp;

The present invention describes a new composition comprising antisense oligonucleotide (ON) with low adenosine (up to 15% targets nucleic acids involved in bronchoconstriction, allergests nucleic acids involved in bronchoconstriction.

allergies, and/or compositions

an which

Disclosure;

Page

537;

1343pp; English

inflammation. The ON can have antiinflammatory, antiallergic antiasthmatic, cytostatic and analgesic activities. The compouseful for the treatment of diseases associated with inflamma

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AAA34481/c
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothicate; impaired respiration; infilammation; allergy; allergic disease; bronchoconstriction; inhibitor; antinflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; antiallergic; actimatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vascoonstriction; asthma;
                                                                                                                                                                            New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension,
                                                                                                                                                            bronchitis,
                                                                                                                                                                                                                               WPI; 2000-205971/18.
                                                                                                                                                                                                                                                                                                                                 03-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                03-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                 24-FEB-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                pulmonary hypertension; chronic cancer; leukaemia; lymphoma; car
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human adenosine receptor related polynucleotide SEQ ID NO:2170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAA34481 standard; DNA;
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                                                                                                                                                              emphysema,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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90.9%;
                                                                                                                                                              respiratory distress
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Pred. No. 66;
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                                                                                                                                                              syndrome,
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                                                                                                                                                              ischemia or
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ABV62380/c
ID ABV623
XX
AC ABV623
AC Human;
KW Human;
KW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 45
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Best Local
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in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression. (M1) is useful for identifying genes involved in skin homeostasis; to determine skin homeostasis and to test agent (A) that maintains or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        e.g. isc
asthma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  impaired airways, including lung disease and diseases whose secondary effects afflict the lungs of a subject. They can be used for treating e.g. ischaemic conditions, pulmonary vasoconstriction, allergies,
                                                                                                                                                                                                                                                                                                                                                                                       In vitro identification of homeostasis and identifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-JAN-2001; 2001DE-1000127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11-JUL-2002
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                                                                                                                                                                                                                                                                                      Disclosure; Page 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2002-590638/63
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-DEC-2001; 2001WO-EP15179
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                                                                                                                                                                                                                                                                                                                                                         .g. skin cancer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
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90.9%;
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                                                                                                                                                                                                                                                                                                                                                                                       of skin-expressed genes, useful for determining ying cosmetic or pharmaceutical agents against
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Pred. No. 66;
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                                                                                      disorders, specifically neurodermatitis; sunburn; psoriasis; sclerodermatichthyosis, atopic dermatitis; acne; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 147; 1345pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          In vitro identification of skin-expressed genes, useful for determining
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-590638/63
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-DEC-2001; 2001WO-EP15179
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                                                                                        AAX55033;
                                                                                                                                           AAX55033 standard; DNA; 12
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RESULT 49

AAF20602

AAF20602 standard; DNA; 12

ВP

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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                           non-coding regions of RNAs corresponding to target genes, gene initiation codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-end and the juxta-section between coding and non-coding regions and all segments of RNAs encoding proteins associated with one or more diseases, conditions or mixtures. The antisense oligonucleotides
                                                                                                                                                                                                                                                                                                                                        may be derived from sequences AAX55272-74. These multiple target oligonucleotides (specifically AAX55180-271) on be used for the antisense treatment of diseases and conditions. Typical diseases and conditions are those associated with impaired respiration and
                                                                                                                                          Sequence 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The specification describes antisense oligonucleotides (AAX52869-X55271) directed against at least 2 mRNAs selected from target genes, coding and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1999-229400/19
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17-SEP-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma; colon cancer; breast cancer; lung cancer; pancreatic cancer; hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             acute asthma; allergy; asthma; impeded respiration; respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary vasoconstriction; emphysema;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     impaired respiration; inflammation; lung disease;
pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 70; 120pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 vasoconstriction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New antisense oligonucleotides used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nyce JW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            prostate cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C/EBP-beta antisense oligonucleotide fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-SEP-1998;
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12
                                 W
                                                                      10;
                                                                                       Similarity
                               ccegeccaeec
                                                                                                                                          BP; 0 A;
                                                                      Conservative
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97US-0059160
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                                                                                    47.0%;
90.9%;
                                                                                                                                          7 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ide; multiple
inflammation;
                                                                                                                                          σ
                                                                      0
                                                                                                                                          G; 0 U; 0 other;
                                                                                     Score 9.4;
Pred. No. 8
                                                                      Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                in treatment of,
                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antisense treatment;
                                                                      ۲
                                                                                                    Length 12;
                                                                      Indels
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                                                                     0
                                                                     Gaps
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Human C/EBP polynucleotide fragment #2169

(first entry)

enosine antisense oligonucleotide; phosphorothioate; airway disorder; bronchoconstriction; lung inflammat

allergy;

human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory; immunosuppressive; antasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection; chronic obstructive pulmonary disease; pulmonary infection; bronchitis;

cancer; ss.

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Query Match
Best Local Similarity
Thes 10; Conserv
                                                                                                                                                                                                                                               cc immunoglobulins and antibodies, antibody receptors, cytckines and cc chemokines, endogenously produced specific and non-specific enzymes, cb binding proteins, adhesion molecules and their receptors, cytokine and cc hemokine receptors, adenosine receptors, bradykinin receptors, central creceptors, contral creceptors, binding proteins and malignancy associated proteins. The cc antisense oligonuclectides may be used in this way to treat disorders cincluding respiratory obstruction (especially pulmonary obstruction cc and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or surfactant hypoproduction which are associated with a disease or condition selected from pulmonary vasoconstriction, inflammation, callergies, asthma, impeded respiration, respiratory distress syndrome (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary condition, concer. AAF18434 to AAF21543 represent human polymuclectide of the Typestic and antisense oligonuclectides used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. The antisense oligonucleotides and (1) can be used to down-regulate the expression and or activity of target polypeptides associated with lung/respiratory disorders and malignancies, such as stimulating and activating peptide factors and transmitters, transcription factors, immunosolbwiling and antibodies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic, (I)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (NYCE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 14; Page 264; 1592pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cancers and respiratory obstructions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-679539/66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nyce JW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Low adenosine (A) content antisense oligonucleotides which trigger adenosine receptors during metabolism, useful e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24-MAR-2000; 2000WO-US08020
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             UNIV EAST CAROLINA.
                                                                                                                                                               12
                                                                                                                                                        87;
                               Conservative
                                                                                                                                                                                                                                 invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99US-0127958
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                                                       47.0%;
                                                                                                                                                               7 C; 5
                        Score 9.4; DB Pred. No. 82; 0; Mismatches
                                                                                                                                                           G; 0 U; 0 other;
                                                                                          DB 1;
                           1;
                                                                                      Length 12;
                               Indels
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                           Gaps
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RESULT 50
AAA34480/c
ID AAA344
XX PHEN AAA34
XX PHEN WO2000
XX WO2000
XX WO2000
XX OJ-AUC
XX OJ-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAA34480;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAA34480 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 03-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               phosphorothioate; impaired respiration; inflammation; allergy;
allergic disease; bronchoconstriction; inhibitor; antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-JUL-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-FEB-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; adenosine receptor; low adenosine antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      lymphoma;
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New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or

Disclosure; Page 537; 1343pp; English

cc targets nucleic acids involved in bronchoconstriction, allergies, and/or cinflammation. The ON can have antiinflammatory, antiallergie, and/or cantiasthmatic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, cytostations are conditions, pulmonary vasoconstriction, allergies, cytostations, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive culmonary disease (COPD), and cancers such as leukaemias, lymphomas, carcinomas, and cancers which may metastasise to the lungs, including the one of decayadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAA32312 represent the control of the control of the causing the causing the causing ca nucleotide sequences given in the sequence listing from the present invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185 sequences are also called SEQ ID NO:1 to 185 but the sequences differ from the previously named sequences. SEQ ID NO:11 to 1680 (AAA12323 to AAA33992) are specifically claimed ONs from the present invention. N.B. Sequences given in the disclosure of the present invention do not match up with their corresponding SEQ ID NO: sequences given in the sequence listing. The present invention describes a new composition comprising a antisense oligonucleotide (ON) with low adenosine (up to 15%). an which

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RESULT 51
AAZ79191/c
ID AAZ791
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Best Local S
Matches 10
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                                                                                                                                            19-JUN-
                                                                                                                                                                                                                                                                                                                                                                                                    Human dendritic cell SAGE tag,
                                                                                                                                                                                                                                                                                                                                                                                                                                     AAZ79191;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAZ79191 standard; DNA; 10 BP
       WPI; 2000-106077/09
                     Roberts BL,
                                                                                                               19-JUN-1998
19-JUN-1998
                                                                                                                              19-JUN-1998;
19-JUN-1998;
                                                                                                                                                             19-JUN-1998
19-JUN-1998
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19-JUN-1998
                                                                                                                                                                                                                                                                                                     18-JUN-1999;
                                                                                                                                                                                                                                                                                                                                   WO9965924-A2
                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                               cytotoxic T-lymphocyte; tumour antigen;
                                                                                                                                                                                                                                                                                                                                                                     SAGE tag; serial analysis of gene expression; antigen-presenting cell; APC; monocyte-derived dendritic cell; differential gene expression; immunostimulatory cofactor; costimulatory factor; CTL;
                                                                                                        19-JUN
                                                                                                                                                     19-JUN
                                                                                                                                                                                                                 NDC-61
                                                                                                                                                                                                                                                                                      19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                     10-APR-2000 (first entry)
                                                                                                                                                                                                  19-JUN
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                                    GENZYME CORP.
ROBERTS B L.
SHANKARA S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
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                     Shankara
                                                                                       98US-0090036.
98US-0090040.
98US-0090041.
98US-0090043.
98US-0090043.
98US-0090045.
98US-0090045.
98US-0090045.
98US-0090075.
98US-0090070.
98US-0090070.
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98US-0090080.
98US-0111715.
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98US-0089999
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98US-0089853
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90.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO:1619.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              No.
                                                                                                                                                                                                                                                                                                                                                               immunotherapy; anticancer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
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Isolated polynucleotides differentially expressed in antigen-presenting cells, useful in gene vaccines against cancer -  $\,$ 1; Page 111; 130pp; English

lyse the tumour cells, immunostimulatory cofactors also being required for efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid sequences identified using the SAGE tags have several potential uses. They may be used in vaccines to induce an immune response, particularly against a tumour antigen; to modulate the genotype of an APC; to screen for agents that modulate expression of differentially expressed genes in an APC; and as hybridisation probes/amplification primers for the diagnosis, prognosis and monitoring of diseases related to abnormal expression of these genes. Detection of the dendritic cell differentially expressed genes, or of their encoded protesins, can be used to identify cells as belonging to the monocyte lineage. Cells containing themse genes can be used in active immunotherapy (or to stimulate production of a population of antigen-specific effector cells) and vectors containing them are used in gene therapy. Co-administration of antigen presentation to endogenous APCs and upregulates the APCs for the presentation of co-stimulatory signals, migration of chemokines for the secretion of T cell growth factors and secretion of chemokines for other transcripts correspond to novel genes. Antigen-presenting cell (APC)-associated costimulatory factors play an important role in the activation of the cytotoxic immune response, particularly against tumour cells. Tumour antigen presentation via the MHC (major histocompatibility complex) and subsequent recognition by T-cell receptors is alone insufficient to activate a robust cytotoxic immune response that can approximate the construction of the complex of the construction of t immunostimulatory cofactor proteins which are preferentially or differentially expressed in monocyte-derived dendritic cells compared with monocytes. Some of the transcripts correspond to known genes or ESTs (expressed sequence tags) which were previously unknown to be preferentially or differentially expressed in dendritic cells, while recruitment of immune effector cells. Sequences AAZ77573-Z79709 represent SAGE (serial analysis of expression) tags used to identify mRNA transcripts encoding gene

Sequence 10 BP; 0 A; 3 C; 2 G; 5 T; 0 other;

Query Match Best Local S Matches 9 10 AGGCCAAAG 18 l Similarity 9; Conserv Conservative 45.0%; 0; Score 9; Pred. No. Mismatches DB 1 <u>بر</u> • • Length 10; <u>,,</u> Indels 0 Gaps 0

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В

10

AGGCCAAAG 2

RESULT 52
AAZ82338/c
ID AAZ82328;
XX
ACC AAZ82328;
XX
DT 07-APR-2000 (first of the control of th DNA; 10 ₽P

Metastatic breast tumour cell upregulated transcript tag #1562.

(first entry)

antimetastatic; vaccine; diagnosis; ss. non-metastatic breast tumour tissue; metastatic breast tumour tissue; breast cancer; tag; primer; gene therapy; anticancer;

98US-0089853 98US-0089997 99WO-US13647

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RESULT 53
AAZ85483
ID AAZ85
XX AAZ85
XX O7-AP
DT O7-AP
DZ Metas
XX Human
KW non-m
KW non-m
KW antim
XX Homo
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines, for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agence. Host cells that produce the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune effecter cells, e.g. cytotoxic T lymphocytes, and these used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i. e. are upregulated in metastatic breast tumour cells).

AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis,
                                                                                                                                                           Human; metastatic breast tumour tissue; breast cancer; non-metastatic breast tumour tissue; gene therapy; ant: antimetastatic; vaccine; diagnosis; ss.
                                                                                                                                                                                                                                   Metastatic breast tumour cell downregulated transcript tag #4717.
                                                                                                                                                                                                                                                                         07-APR-2000
                                                                                                                                                                                                                                                                                                               AAZ85483;
                                                                                                                                                                                                                                                                                                                                                  AAZ85483 standard; DNA; 10 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer -
                                                       23-DEC-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 10 BP; 0 A; 4 C; 4 G; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-106079/09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Roberts BL,
                  18-JUN-1999;
                                                                                         WO9965928-A2
                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            adoptive immunotherapy.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .9-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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98US-0090040.
98US-0090041.
                  99WO-US13647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     45.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
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                                                                                                                                                                                cer; tag; pr
anticancer;
                                                                                                                                                                                               primer;
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RESULT 54
AAZ86477/C
ID AAZ86
XX AAZ86
XX AAZ86
XX O7-AE
DE Metas
XX Humar
KW Honnar
KW nonin
KW antin
XX Homo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts CC that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected control tight, aparticularly antiquency or hybridisation, in selected control tight, aparticularly antiquency or modulate expression of the transcripts are concected control tight, aparticularly antiquency or matiscripts are used to direct expression, in selected concernies, particularly antiquency or matiscripts are also concernies, particularly antiquency or matiscripts are also concernies, particularly antiquency or matiscripts are also concernies, particularly and antiquencence for use in gene or cell-based vaccines, for diagnosing breast cancer and for raising consecutive immunocherany of educated, antiquen-specific immune centeries immune consecutive immunocherany.
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Best Local S
Matches 9
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19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
                                                                                                                                                                                                  Metastatic breast tumour cell downregulated transcript tag #5711.
                                                                                                                                                                                                                                      07-APR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer -
                  23-DEC-1999
                                                      WO9965928-A2
                                                                                                                                               non-metastatic
                                                                                                                                                            Human; metastatic breast tumour tissue; breast cancer; tag; primer;
                                                                                                                                                                                                                                                                        AAZ86477;
                                                                                                                                                                                                                                                                                                              AAZ86477 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 10 BP; 4 A; 2 C; 4 G; 0 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      adoptive immunotherapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; Page 185; 219pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Roberts BL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GENZ )
(ROBE/)
                                                                                        sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000-106079/09
                                                                                                                                                                                                                                                                                                                                                                                                                                      10 AGGCCAAAG 18
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ROBERTS E
SHANKARA
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                                                                                                                                                                                                                                                                                                                                                                                                    AGGCCAAAG 10
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                                                                                                                                                                                                                                      (first entry)
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98US-0089997.
98US-0090039.
98US-0090040.
98US-0090041.
                                                                                                                                             breast tumour tissue; gene
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             45.0%; Score 9;
100.0%; Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
o. 64;
                                                                                                                                             therapy; anticancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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RESULT 55
AAZ86559/c
ID AAZ865
XX AAZ865
XX -
AC AAZ865
XX O7-APR
DT 07-APR
DE Metast
XX Human;
KW Human;
KW Honon me
KW antime
XX AMW ANTIME
XX AMW ANTIME
XX AMW ANTIME
XX PN WO9965
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CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, compitoring and treatment of breast cancer, particularly where metastatic. CC Diagnosis is by standard immunoassays or hybridisation/amplification creactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense cell-based vaccines. Polypeptides encoded by the transcripts are also consecuted in vaccines; for diagnosing breast cancer and for raising cepenic (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune cells, e.g. cycotoxic T lymphocytes, and these used for advantive immunor-barany
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Best Local S
Matches 9
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19-JUN-1998;
19-JUN-1998;
                                                                         Human; metastatic breast tumour tissue; non-metastatic breast tumour tissue; ger antimetastatic; vaccine; diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI;
                                                                                                                                      Metastatic breast tumour cell downregulated transcript
                                                                                                                                                                       07-APR-2000
                                                                                                                                                                                                     AAZ86559;
                                                                                                                                                                                                                                  AAZ86559 standard; DNA; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 10
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                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (GENZ )
(ROBE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    adoptive immunotherapy.
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ROBERTS B L.
SHANKARA S.
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                                                                                                                                                                                                                                                                                                                                                                          Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                             GCCCAAAGT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 1
                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Shankara
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98US-0090039.
98US-0090040.
98US-0090041.
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                                                                                                                                                                                                                                                                                                                                                                                                         45.0%;
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                                                                                                                                                                                                                                    В₽
                                                                                                                                                                                                                                                                                                                                                                                         Score 9; Pred. No
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                                                                                                                                                                                                                                                                                                                                                                          red. No. 64
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                        T;
                                                                           ; gene therapy; anticancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                        other;
                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
                                                                                                        breast cancer;
                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                       Length 10;
                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                      tag
                                                                                                        tag; primer;
                                                                                                                                        #5793.
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RESULT 56
ABL52193/c
ID ABL52193 standard; DNA; 10
XX
AC ABL52193;
XX
DT 12-JUL-2002 (first entry)
XX
DT 12-JUL-period (Drosophila)
XX
KW Human; period (Drosophila)
XX
KW polymorphic site; genotypi
XX
XX
Single nucleotide polymorp
XX
XX
OS Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CC transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour rells).

CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts (that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic. CI indinosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines, for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune effecter cells, e.g. cytotoxic T lymphocytes, and these used for
                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 9
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19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer -
                                                                   Human; period (Drosophila) homologue 1; PER1; polymorphic variant; polymorphic site; genotyping; haplotyping; circadian rhythm regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; Page 211; 219pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Roberts BL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (GENZ )
(ROBE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-JUN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (SHAN/)
                                                                                                                  PER1 preferred oligonucleotide
                                                                                                                                                                                                                                                                                                 10 AGGCCAAAG 2
                                                                                                                                                                                                                                                                                                                                 10 AGGCCAAAG 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENZYME
ROBERTS
                                                                                                                                                                                                                                                                                                                                                               Similarity 9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             immunotherapy.
                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 0 A; 3 C; 2 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Shankara
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98US-0089997.
98US-0090039.
98US-0090040.
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B L.
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                                                  genotyping; haplotyping;
polymorphism; SNP; gene;
                                                                                                                                                  entry)
                                                                                                                                                                                                                                                                                                                                                                              100.0%;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                  primer
                                                                                                                                                                                                                                                                                                                                                                                DB 1;
                                                    primer; ss
                                                                                                                  SEQ ID
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                                                                                                                  NO:118
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RESULT 57
AAS19877/G
ID AAS19
XX AAS19
XX O1igc
XX Oligc
XX Oligc
XX Humar
KW Cincon
KW Cance
XX Cance
XX Homo
XX Homo
XX Homo
XX 17-AI
XX 17-AI
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes an isolated human period (Drosophila)
C homologue 1, (PER1) polynucleotide (I) comprising a sequence which is a
polymorphic variant for a reference sequence (ABL52077) for the PER1 gene
C or its fragment, or a polymorphic variant of a reference sequence
(ABL52078) for a PER1 cDNA or its fragment. The present invention also
describes methods for genotyping and haplotyping the PER1 gene of an
individual (I) is useful in studying the expression and function of
PER1, and in expressing PER1 protein for use in screening for candidate
drugs to treat diseases related to PER1 activity, (I) is useful for
therapeutic purposes. A recombinant non-human organism transformed or
transfected with (I) can be used for studying expression of the PER1
isogenes in vivo, for in vivo screening and testing of drugs targeted
against PER1 protein, and for testing the efficacy of therapeutic agents
and compounds for disorders associated with circadian rhythm regulation.
The present sequence represents a preferred oligonucleotide primer
for human PER1, which is used in the exemplification of the present
                                                                                                                                                                                         Human; single nucleotide polymorphism; SNP; RANGAP1; haplotyping chromosome 22q13.2-q13.31; Ran GTPase activating protein 1; geno cancer; irregular cell cycle associated disorder; primer; ss.
                  17-APR-2000; 2000US-198072P
                                                     17-APR-2001; 2001WO-US12455
                                                                                                                           WO200179240-A2
                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                 Oligonucleotide #57 to detect human RANGAP1 gene polymorphisms.
                                                                                                                                                                                                                                                                                                      08-MAY-2002
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                                                                                                                                                                                                                                                                                                                                                                          AAS19877 standard; DNA; 10
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nes 9; Conserv
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                                                                                                                                                                                                                                                                                                    (first entry)
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RESULT 58
AAD261.66
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                                                                                              New human endothelin 2 (EDN2) polymorphic variants and encoding useful in expressing EDN2 protein for screening candidate drugs treat diseases related to EDN2 activity -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; endothelin 2; EDN2; polymorphic site; PS; therapy; hyperte drug screening; cardiovascular disorder; renal insufficiency; ASO allele specific oligonucleotide; cerebroprotective; polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human endothelin 2 (EDN2) gene polymorphism detecting primer #5
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                                                                                                                                                                                                                         WPI; 2002-083075/11.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 10 BP; 0 A; 5 C; 3 G; 2 T; 0 other;
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nes 9; Conserv
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o. 64;
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Claim 18; Page 15; 91pp; English

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Best Local S
Matches
                       has a tumour cell or site of angiogenesis, or if a treatment is effective in changing angiogenesis or changing a status of a set of target cells, comprising determining if a sample of the subject has an expression product of at least one marker gene. Also described is a compound capable of altering the expression or activity of Keratin 14, TIE 1, Salioadhesin or Siglec in a cell. Peripheral blood mononuclear cell (PBMC) expressed Keratin 14, TIE 1, Salioadhesin or Siglec, and kits containing them from
                                                                                                                                                                                                                                                                                                                                                                                            Determining presence of a tumor cell or angiogenesis, effectiveness of treatment, by detecting the presence is useful to detect and monitor treatment of Kaposi's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23-JAN-2001; 2001EP-0200228
28-SEP-2001; 2001EP-0203703
28-SEP-2001; 2001US-325722P
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                                                                                                                                                                                                                                                                                                                                  Page 8;
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RESULT 60
ABV62890/cc
ID ABV628
XX ABV628
XX ABV638
DT 21-OCT
XX Human;
KW Human;
KW Human;
KW PSOTI;
XX WO200;
XX In U;
PT In V;
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XX WPI;
XX WPI;
XX PS Disc;
XX C So a
CC So a
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                                                                                                            Sequence 11
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                                                                                                                                                               ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of skin. The present sequence is that of a human expressed sequence tag
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Pred. No.
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RESULT 62
ABV64637/c
ID ABV646
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AC ABV646
AC ABV646
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DT 21-OCT
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DE Human
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ABV64419/c
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Best Local :
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 Human skin EST 2423
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                            21-OCT-2002
                                                      ABV64637;
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                                                                                 ABV64637 standard;
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RESULT 63
ABV66400/c
ID ABV6644
XX ABV664
XX ABV684
XX 21-OCT
XX Human
XX Human
XX Human
XX Human
XX Homo s
XX W 20002
XX WO2002
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Best Local S
Matches 9
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                                                                                                                               Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
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                                                                                                    Homo sapiens
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20-DEC-2001; 2001WO-EP15179

11-JUL-2002

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RESULT 64
ABV68594/c
ID ABV685
XX ABV685
XX Human
XX Human;
KW Human;
KW immuno
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Disclosure; Page 202; 1345pp; German
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... ... skin of humans or animals by subjecting a mixture of genes expressed encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression. (M1) is useful for identifying genes involved in skin homeostasis, to determine skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma; ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (SNPs) in the human Ran GTPase activating protein 1 (RANGAP1) gene located on chromosome 22q13.2-q13.31, and methods for haplotyping and/or genotyping the RANGAP1 gene. The methods of the invention make use of allele-specific oligonucleotides (ASOs) as probes and primers and/or primer-extension oligonucleotides for detecting the RANGAP1 gene polymorphisms. The polymucleotides and screened compounds are useful for treatment of diseases associated with RANGAP1 activity, such as cancer and other disorders associated with an irregular cell cycle. AAS19743-AAS19820 represent ASO primers for detecting human RANGAP1
PCR primer; amplification; yeast; UAS; upstream activating sequence; transcription terminator; cell cycle; Upstream Activation Sequence; UAS; promoter; phosphorylation; cyclin; cyclin-dependent kinase; CDK; vector;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; single nucleotide polymorphism; SNP; RANGAP1; haplotyping chromosome 22q13.2-q13.31; Ran GTPase activating protein 1; genoty cancer; irregular cell cycle associated disorder; ASO; primer; ss; allele-specific oligonucleotide.
                                                                                                                            Primer #2 for human
                                                                                                                                                                                             08-DEC-1998
                                                                                                                                                                                                                                                         AAV60744;
                                                                                                                                                                                                                                                                                                                AAV60744 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15 BP; 3 A; 6 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gene polymorphisms.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to novel single nucleotide polymorphisms (SNPs) in the human Ran GTPase activating protein 1 (RANGAP1) gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 15; Page 15; 148pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 determining haplotype of individual, involves determining identity on nucleotide pair at specific polymorphic sites for two copies of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Genotyping human Ran GTPase activating protein 1 gene of individual for determining haplotype of individual, involves determining identity of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2002-075068/10.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ASO primer #56 to detect human RANGAP1 gene polymorphisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-MAY-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200179240-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTCCTGGCCCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Choi JY,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                         (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first
                                                                                                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Koshy
                                                                                                                            CDK4 codons 1-163
                                                                                                                                                                                         entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          44.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   G; 0 U; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 8.8;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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1.6e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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RESULT 69
AAQ96791
ID AAQ96
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Primers AAV60743-V60745 were used to PCR amplify codons 1-163 of the chuman cyclin-dependent kinase 4 (hCDK4). The amplified product was used to generate a fusion protein comprising part of the hCDK4 sequence in the generate a fusion protein comprising part of the hCDK4 sequence in the generate a fusion protein comprises gene. The fusion protein is included to codons 154-302 of the yeast PHO85 gene. The fusion protein is included to screen for compounds that affect mammalian cell cycle regulatory proteins. The method comprises administering a compound to a cell line, which contains a reporter gene linked to an Upstream Activation Sequence (UAS) and a promoter, where the UAS binds a transcription control factor (TCF) which is regulated through cyclin/cyclin-dependent kinase (CDK) phesphorylation. Also included in the construct is an effector gene providing a gene product to permit normal cyclin/CDK regulation. The method can be used to identify inhibitors and activators of the reporter gene is then analysed in the cell line, thereby determining whether the compound affects the normal regulation. The method can be used to identify inhibitors and activators of cyclins, CDKs, cyclin/CDK complexes, cyclin kinase crivators of cyclins, cyclin/CDK/CXI complexes, cyclin kinase consisted agents.
                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mammalian controllins, CDKs, Cyclin, CDKs, Cyclin, CDKs, Cyclin, CDK, CKI complexes. The identifications (CKIs), and cyclin/CDK/CKI complexes. The identification in the controlling can be used for stimulating growth of cells (as in wound healing), can be used for stimulating growth of cells (as in cancer therapy).
                                                 Human immunodeficiency virus type
                                                                                 HIV-1; AIDS; attenuation; vaccine; nef gene; avirulence; ss
                                                                                                                           HIV-1 NL4-3
                                                                                                                                                                                                   AAQ96791;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Screening for agents that effect cell cycle regulatory proteins using a cell line that expresses a reporter gene in response to regulation through phosphorylation by a cyclin/CDK system
                                                                                                                                                               26-MAR-1996
                                                                                                                                                                                                                                     AAQ96791 standard; DNA; 10 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27-NOV-1996;
16-OCT-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 4; Page 75; 93pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bitter GA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16-OCT-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (BITT-) BITTECH INC
                                                                                                                                                                                                                                                                                                                              12 GGCCTGGCCAGA 1
                                                                                                                                                                                                                                                                                                                                                                6 GGCCAGGCCAAA 17
                                                                                                                                                                                                                                                                                                                                                                                                      10;
                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                       nef gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 4 A; 6 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inhibitor; CKI; growth; wound healing; cancer therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  96US-0031968.
96US-0029127.
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                                                                                                                                                                                                                                                                                                                                                                                                                     44.0%;
83.3%;
                                                                                                                         nucleotide deletion 386.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                 Score 8.8; DB 1
Pred. No. 2e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
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RESULT 70
AAT29327/c
ID AAT293
XX AAT293
XX AAT293
XX 25-MAR
DT 25-MAR
DT 28-JUN
XX 27-Pri
XX 61denti
XW 61seas
XX identi
XW 61seas
XX 97the
YN W09531
XX W09531
XX YX 16-MAY
XX PF 12-MAY
XX YX 16-MAY
XX WPI; 1
XX Charac
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23-DEC-1994;
14-FEB-1994;
21-FEB-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Attenuation of pathogenic HIV-1 strain NL4-3 involves deletion of 1 or more decanucleotides (AAQ96406-Q97018) from the nef gene and/or 1 or more decanucleotides (AAQ97019-Q97016) from the LTR region; the sequence of AAQ96406 corresponds to nucleotides 1-10 of the nef gene (AAQ96141). The resulting avirulent HIV strains are still capable of
                                WPI; 1996-010958/01.
                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                        disease diagnosis; ss
                                                                                                                                                                                                                                                                                        characterisation; biological identification; cloning; anal
                                                                                                                                                                                                                                                                                                    5'-primer; mammalian; G-protein coupled receptor; PCR primer kit; characterisation; biological samples; PCR amplification; indexing
                                                                                                                                                                                                                                                                                                                                                                              25-MAR-2003
28-JUN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (AAQ96141). The resulting avirulent HIV strains are still capable inducing an immune response in humans, and enable the generation of therapeutic, diagnostic and targeting agents against HIV-1 infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New non-pathogenic HIV-1 strain carrying a deletion in its nef gene or LTR region - can be used in a vaccine to inhibit/reduce productive infection in an individual by a pathogenic strain
                                                             Lopeznieto CE,
                                                                                                                       16-MAY-1994;
                                                                                                                                                   12-MAY-1995;
                                                                                                                                                                                 23-NOV-1995
                                                                                                                                                                                                               WO9531574-A1
                                                                                                                                                                                                                                                                                                                                                 5'-primer
                                                                                                                                                                                                                                                                                                                                                                                                                           AAT29327;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAT29327 standard; DNA; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 10 BP; 2 A; 3 C; 5 G; 0 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 13; Page 193; 301pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-AUG-1995
                                                                                           (BGHM ) BRIGHAM & WOMENS HOSPITAL.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3 CCGGGCCAGG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                 for mammalian G-protein coupled receptor coding sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Crowe S,
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(first en
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94AU-0003864.
94AU-0004002.
                                                          Nigam
                                                                                                                       94US-0242887
                                                                                                                                                      95WO-US06032
                                                                                                                                                                                                                                                                                      cloning; analysis; genes; genome mapping;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          95WO-AU00063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    42.0%;
90.0%;
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BURNET CENT MEDICAL.
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                                                             SK
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 8.4;
Pred. No. 8
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Characterisation of nucleotide sequences using primer pairs -

by PCR

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RESULT 71
AAV50125/C
ID AAV50
XX AAV50125/C
XX AAV50
AC AAV50
XX Yeast
YA (UYJU
XX Yeast
XX Yeast
PF 22-JJ
XX Yeast
PF 22-JJ
XX Yeast
PF 22-JJ
XX Yeast
PF 23-JJ
XX Yeast
PF Yeast
PT Yeast
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Best Local (
             Yeast transcriptome is encoded by a DNA molecule comprising a yeast gene involved in cell cycle progression selected from the group of nonannotated ORF (NORF) genes. SAGE (serial analysis gene expression) tags for highly expressed genes and NORF genes are given in AAV50051 to AAV50345. The present invention describes: (1) a method of using yeast genes to modulate the cell cycle which comprises administering to a cell an isolated DNA molecule comprising a yeast gene which is involved in cell cycle progression selected from differentially expressed genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The 5'-primers AAT29262-382, and the complementary 3'-primers derived from them, which target mammalian G-protein coupled receptor coding sequences, together comprise a PCR primer kit. The kit is used in a new method for the characterisation of nucleic acid sequences obtd. from mammalian biological samples, which comprises PCR amplification and indexing of the prods. w.r.t the primer pair that hybridised to its delineating subsequences. The method may be used in the identification, cloning and analysis of genes, e.g. in genome mapping, and disease diagnosis.
                                                                                                                                                                                                                    Claim
                                                                                                                                                                                                                                                                              Yeast transcriptome - useful for screening antifungal agents, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Yeast; Saccharomyces cerevisiae; transcriptome; cell cycle; regulation; eukaryotic cell; antifungal; SAGE tag; gene expression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAVS0125;
                                                                                                                                                                                                                                                                                                                                               WPI; 1998-427943/36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23-JAN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-JAN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-JUL-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO9832847-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Saccharomyces
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    serial analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-OCT-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             amplification and indexing of amplification prods. used for genome mapping and disease diagnosis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       for NORF gene locus NORF15.
progression selected given in AAV50051 to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 42.0%;
90.0%;
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to AAV50345);
                                                                                                                                                                                                                                                                                                                                                                                       Vogelstein B;
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                                                                                                                                                                                                                                                                         modulating eukaryotic for identifying genes
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RESULT 72
AAX54917
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pulmonary hypertension; pulmonary vasoconstriction; emphysema; chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma; colon cancer; breast cancer; lung cancer; pancreatic cancer; hepaticestasis; hepaticestasis; hepaticestasis;
                                                                                                                                                                                                        Disclosure; Page 68; 120pp; English
                                                                                                                                                                                                                                                                                New antisense oligonucleotides used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09-JUN-1998;
17-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 prostate cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         acute asthma; allergy; asthma; impeded respiration;
respiratory distress syndrome; pain; cystic fibrosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         impaired respiration; inflammation; lung disease;
pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C/EBP-beta antisense oligonucleotide fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAX54917;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAX54917
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-SEP-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGCCAGGGCA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 oligonucleotide;
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97US-0059160
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90.0%;
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Pred.
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                                                                                                                                                                                                                                                                                   treatment
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antisense treatment;
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                                                                                                                                                                                                                                                                                   of,
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                                                                                                                                                                                                                                                                                   e.g.
                                                                                                                                                                                                                                                                                   pulmonary
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The specification describes antisense oligonucleotides (AAX52869-X5577) directed against at least 2 mRNAs selected from target genes, coding an non-coding regions of RNAs corresponding to target genes, gene initiation codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-end and the juxta-section between coding and non-coding regions and all segments of RNAs encoding proteins associated with one or more diseases, conditions or mixtures. The antisense oligonucleotide

(AAX52869-X55271)

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RESULT 73
AAF20486
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Best Local S
Matches 9
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                                                                    Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for tr cancers and respiratory obstructions -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection; chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Low adenosine antisense oligonucleotide; phosphorothioate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; respiratory obstruction; pulmonary obstruction; impeded respiration;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               may be derived from sequences AAX55272-74. These multiple target oligonucleotides (specifically AAX55180-271) can be used for the antisense treatment of diseases and conditions. Typical diseases conditions are those associated with impaired respiration and
Claim 14; Page 262; 1592pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-MAR-2000; 2000WO-US08020
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                                                                                                                                                                                                         WPI; 2000-679539/66
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGGGCCGGGC 10
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English
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Pred. No. 87;
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The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base

Claim 1;

Page 9;

95pp;

Japanese

autoimmune disease and tumors

The present invention describes a group of genes consisting of 100 genes

bronchodilator,

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AAC73935/c
ID AAC73935/c
ID AAC7399
XX AC7399
XX O2-FEB
XX Human;
XW Human;
XW autoim
XX HOMO s
PN WO2000
XX HOMO s
PN WPI; 2
XX Groups
PT Rutoin
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XX Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CC binding proteins, adhesion molecules and their receptors, cytokine and Cc chemokine receptors, adenosine receptors, bradykinin receptors, central CC nervous system (CNS) and peripheral nervous and non-nervous system CC receptors, CNS and peripheral nervous and non-nervous system CC transmitters, defensins, growth factors, vasoactive peptides and CC receptors, CNS and peripheral nervous and non-nervous system peripheral nervous and non-nervous system complete continuing proteins and malignacy associated proteins. The CC antisense oligonucleotides may be used in this way to treat disorders concluding respiratory obstruction (especially pulmonary obstruction CC and/or surfactant hypoproduction which are associated with a disease or CC condition selected from pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome CC allergies, asthma, impeded respiration, respiratory distress syndrome CC (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary transplantation rejection, pulmonary infections, bronchitis, CC and/or cancer. AAF18434 to AAF21543 represent human polynucleotide concerts and antisense oligonucleotides used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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Best Local
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                                                                                                      Groups of genes expressed in human dendritic cells lesser extent than in monocytes for investigation a
                                                                                                                                                                    WPI; 2000-619172/59.
                                                                                                                                                                                                           Hashimoto S,
                                                                                                                                                                                                                                                                                          01-APR-1999;
                                                                                                                                                                                                                                                                                                                                   30-MAR-2000; 2000WO-JP02019
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; dendritic cell; monocyte; immune system; diagnosis; cancer; autoimmune disease; tumour; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human dendritic cell cDNA base sequence oligonucleotide #22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        02-FEB-2001
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9; Conserv
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                                                                                                                                                                                                             Matsushima
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Pred. No. 8
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RESULT 75
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ID AAC741
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The present invention describes a group of genes consisting of 100 genes which are highly expressed in human dendritic cells; a group of genes which are expressed at a higher frequency in human dendritic cells than in human monocytes; and a group of genes which are expressed at lower frequency in human dendritic cells than in human monocytes. Each group of genes are characterised in that CDNAs of these genes respectively have the base sequences of SEQ ID NO:11 to 100 (AAC73914 to AAC74013), SEQ ID NO:101 to 200 (AAC74014 to AAC74113) and SEQ ID NO:201 to 300 (AAC74114 to AAC74213), each is continuous with the base sequence 5'-CATG-3' located most closely to the poly-A region. The sequence 5'-CATG-3' located most closely to the poly-A region. The sequence 5'-CATG-3' located most closely to the poly-A region of the sequence some be used for the investigation of the role and mechanism of the involvement of dendritic cells in the immune system and for the study and diagnosis of diseases in which dendritic cells play a significant role,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Groups of genes expressed in human lesser extent than in monocytes for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-619172/59
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disease and tumors
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                 The present invention describes a new composition comprising an antisense oligonucleotide (ON) with low adenosine (up to 15%), which cargets nucleic acids involved in bronchoconstriction, allergies, and/or inflammation. The ON can have antiinflammatory, antiallergic, and antiasthmatic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, cytostatic and analgesic activities. The compositions are impaired airways, including lung disease and diseases whose secondary ceffects afflict the lungs of a subject. They can be used for treating ce.g. ischaemic conditions, pulmonary vasoconstriction, allergies, cystic fibrosis, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukaemias, lymphomas, carcinomas, and cancers which may metastasise to the lungs, including the passt and prostate cancer. The reduction of the adenosine content of the ONs reduces side effects. The A-containing ONs break down with the creations of deoxyadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAA32313 to AAA33312 represent the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185 sequences are also called SEQ ID NO:1 to 185, but the sequences differ from the previously named sequences. SEQ ID NO:11 to 1880 (AAA32323 to AAA33992) are specifically claimed ONs from the present invention. N.B. Sequences given in the disclosure of the present invention do not match up with their corresponding SEQ ID NO: sequences given in the sequence listing.
                                                                                                                        19-JUN-
                                                                                                                                                                                                                                                                                                                                                                                                 Human dendritic cell SAGE tag,
                                                                                                                                                                                                                                                                                                                                                                                                                                    AAZ77977;
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                                                                                                                                                                                                                                                                                                                                                      cytotoxic T-lymphocyte; tumour antigen;
                                                                                                                                                                                                                                                                                                                                                             SAGE tag; serial analysis of gene expression; antigen-presenting ce APC; monocyte-derived dendritic cell; differential gene expression; immunostimulatory cofactor; costimulatory factor; CTL;
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RESULT 78 AAZ78898

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BP; 0 A; 3 C; 5 G; 2 T; 0 other;

Human dendritic cell SAGE tag,

SEQ ID NO:1326

SAGE tag; serial analysis of gene expression; antigen-presenting ce APC; monocyte-derived dendritic cell; differential gene expression; immunostimulatory cofactor; costimulatory factor; CTL;

Homo sapiens cytotoxic

T-lymphocyte;

tumour antigen;

immunotherapy; anticancer; ss

cell;

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CC with monocytes. Some of the transcripts correspond to known genes or CESTS (expressed sequence tags) which were previously unknown to be preferentially or differentially expressed in dendritic cells, while CC (APC)-associated costimulatory factors play an important role in the crivation of the cytotoxic immune response, particularly against tumour cells. Tumour antigen presentation via the MHC (major histocompatibility cemplex) and subsequent recognition by T-cell receptors is alone complex) and subsequent recognition by T-cell receptors is alone complex) and subsequent recognition by T-cell receptors is alone complex. The tumour cells, immunostimulatory cofactors also being required complex and subsequent recognition by T-cell receptors is alone complex. The tumour cells, immunostimulatory cofactors also being required complex is dentified using the SAGE tags have several potential uses. They may be used in vaccines to induce an immune response, particularly against a tumour antigen; to modulate the genotype of an APC; to screen companies that modulate expression of differentially expressed genes in a sphridisation probes/amplification priners for the conformal composition of an APC; and as hybridisation probes/amplification priners for the conformal c
                                                          recruitment of immune effector cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               differentially expressed in monocyte-derived dendritic cells compared with monocytes. Some of the transcripts correspond to known genes or
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CC differentially expressed in monocyte-derived dendritic cells compared CC with monocytes. Some of the transcripts correspond to known genes or CC ESTs (expressed sequence tags) which were previously unknown to be CC preferentially or differentially expressed in dendritic cells, while CC other transcripts correspond to novel genes. Antigen-presenting cell (APC)-associated costimulatory factors play an important role in the CC activation of the cytotoxic immune response, particularly against tumour cells. Tumour antigen presentation via the MHC (major histocompatibility CC complex) and subsequent recognition by T-cell receptors is alone CC insufficient to activate a robust cytotoxic immune response that can CC lyse the tumour cells, immunostimulatory cofactors also being required CC for efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid CC sequences identified using the SAGE tags have several potential uses. CC They may be used in vaccines to induce an immune response, particularly CC against a tumour antigen; to modulate the genotype of an APC; to screen CC diagnosis, prognosis and monitoring of diseases related to abnormal CC expression of these genes. Detection of the dendritic cell containing containing containing containing containing containing can be used to identify cells as belonging to the monocyte lineage. Cells containing
                    expression)
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                    AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells).

AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour cissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisaction/amplification reactions. Compounds that modulate expression of the transcripts are
                                                                                                                                                                                                                                                                                                                                       Claim 1; Page 79; 219pp; English.
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        AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic.
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                                                                                                                                      Claim
                                                                                                                                                              Isolated polynucleotides differentially and non-metastatic breast cancer cells, prevention and treatment of cancer -
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                                                                                                                                                                                        Claim
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98US-0089997
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AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells).

AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis,

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ARESULT 82
AAZ82634
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AAZ80767 to AAZ83941 represent tags transcripts that are preferentially tumour tissue (i.e. are upregulated AAZ83942 to AAZ86677 represent tags that are preferentially transcribed
                                                                                                                                                                                                                                                                                                                                                                                                  (GENZ )
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                                                                                                                                                                            expressed between metastatic useful for diagnosis,
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be used
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AAZ80767 to AAZ83941 represent tags transcripts that are preferentially tumour tissue (i.e. are upregulated

corresponding to distinct transcribed in the metastatic in metastatic breast tumour co

breast

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Page 117;

219pp; English.

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RESULT 84
AAZ83555/c
ID AAZ83555;
XX
AC AAZ83555;
XC AAZ83555;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell
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DE Metastatic breast tumour cell
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DE Metastatic breast tumour cell
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DE Metastatic breast tumour
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Human; metastatic; vaccine; diag
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Homo sapiens.
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Matches 9
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                                                                                                                                                                                           Isolated polynucleotides differentially
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; metastatic breast tumour tissue; breast cancer; tag; primer; non-metastatic breast tumour tissue; gene therapy; anticancer; antimetastatic; vaccine; diagnosis; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Metastatic breast tumour cell upregulated transcript tag #2789
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 10 BP; 1 A; 4 C; 4
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                                                                                                                                                               non-metastatic breast cancer cells,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      These transcripts can be used for diagnosis, prognosis,
                                                               Page 133; 219pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGGCCAGGCC 14
      AAZ83941 represent tags corresponding to distinct
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98US-0089997.
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98US-0090040.
98US-0090041.
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                                                                                                                                  of cancer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ВP
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                                                                                                                                                               expressed between metastatic useful for diagnosis,
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RESULT 85
AAZ84116
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Best Local
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19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
                                          Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis,
                                                                                                                        Roberts BL,
                                                                                                                                                                        (GENZ )
(ROBE/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; metastatic breast tumour tissue; breast cancer; tag; primer;
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) ROBERTS B L.
) SHANKARA S.
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98US-0089997.
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98US-0090040.
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Pred. No. 87;
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Claim 1; Page 148; 219pp; English

prevention and

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Of.

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RESULT 86
AAZ84359/c
ID AAZ843
XX AAZ843
XX Metast
XX Human;
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KW antime
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   Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer -
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Pred. No. 8
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                                                      WPI; 2000-106079/09
                                                                                                               Roberts BL,
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antimetastatic; vaccine;
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ne; diagnosis; ss.
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Pred. No. 87;
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Isolated polynucleotides differentially expressed between metastatic

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Best Local S
Matches
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                                                                                                                                                                                                                                                                                                                                    Human; metastatic breast tumour tissue; breast cancer; tag; pr non-metastatic breast tumour tissue; gene therapy; anticancer; antimetastatic; vaccine; diagnosis; ss.
WPI; 2000-106079/09
                            Roberts BL,
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19-JUN-1998;
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prevention and treatment of cancer -
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                                                            (SHAN/)
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                                                            SHANKARA S.
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98US-0089997.
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potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in select cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines; for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be use to expand and isolate populations of educated, antigen-specific immune effecter cells, e.g. cytotoxic T lymphocytes, and these used for
                                                                                                                                                                                                                                                                                                                                                                                                                                              AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour
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Sequence 10 BP; 0 A; 3 C; 5 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                          cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastroning and treatment of immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are
                                                  adoptive immunotherapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1;
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Query Match Best Local S Matches 9 10 GCCAGGCCCA 1 Similarity 9; Conserv 7 GCCAGGCCAA 16 Conservative 42.0%; 0; Score 8.4; D Pred. No. 87; Mismatches DB 1; 1, Length 10 Indels 0, Gaps 0

RESULT 89 AAZ85815/c 19-JUN-1998; 19-JUN-1998; 19-JUN-1998; 19-JUN-1998; 19-JUN-1998; 23-DEC-1999 Homo sapiens antimetastatic; vaccine; diagnosis; ss. non-metastatic breast tumour tissue; gene therapy; anticancer; Human; metastatic breast tumour tissue; breast cancer; tag; Metastatic breast tumour cell downregulated transcript tag #5049 07-APR-2000 AAZ85815 18-JUN-1999; standard; DNA; 10 (first 98US-0089853 98US-0089997 99WO-US13647 98US-0090039 entry)

Roberts BL,

Shankara

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(GENZ ) (ROBE/)

GENZYME CORP ROBERTS B L. SHANKARA S

98US-0090041 98US-0090040

(SHAN/)

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RESULT 90
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CC AAR83942 to AAR86677 represent tags corresponding to distinct transcripts could be as the preferentially transcribed in the primary or non-metastatic breast tumour cells).

CC that are preferentially transcribed in the primary or non-metastatic councils.

CC transcripts can be used for diagnosis, prognosis, could be as the transcripts can be used for diagnosis, prognosis, could be asset to the primary of the transcripts are concer, particularly where metastatic breast tumour councils. Compounds that modulate expression of the transcripts are concertantially useful for treatment of (metastatic) breast cancer, while concerts from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense concerts from the transcripts are used to direct expression, in selected cell-based vaccines, Polypeptides encoded by the transcripts are also cuseful in vaccines; for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents (Ab). Ab are used to detect the polypeptides or as the effecter cells, e.g. cytotoxic T lymphocytes, and these used for expand and isolate populations of educated, antigen-specific immune affects of the control of th
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       (GENZ )
(ROBE/)
(SHAN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        non-metastatic breast tumour tissue; gene therapy; anticancer;
antimetastatic; vaccine; diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; metastatic breast tumour tissue; breast cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-APR-2000
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                                                                                                                                                                                                                                                         19-JUN-1998;
19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                     18-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO9965928-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Metastatic breast tumour cell downregulated transcript tag #5185.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAZ85951 standard; DNA; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          adoptive immunotherapy.
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       GENZYME CORP.
ROBERTS B L.
SHANKARA S.
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                                                                                                                                             98US-0089853.
98US-0089997.
98US-0090039.
98US-0090040.
98US-0090041.
                                                                                                                                                                                                                                                                                                                                                                     99WO-US13647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    vaccine; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               42.0%;
90.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tag;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       primer;
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reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines, for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune effecter cells, e.g. cytotoxic T lymphocytes, and these used for
                                                                                                                                                                                                                                                                                                                                                                                 AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells).

AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis,
Sequence 10
                                               adoptive immunotherapy.
                                                                                                                                                                                                                                                                                                                                  monitoring and treatment of breast cancer, particularly where metast. Diagnosis is by standard immunoassays or hybridisation/amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 1; Page 196; 219pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Roberts BL,
BP; 1 A; 5 C; 4
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G; 0 U; 0 other;
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RESULT 91
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Best Local S
Matches 9
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9; Conserv
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                      GGGCCAGCCC
                                    GGGCCAGGCC
                                                  Conservative
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                                                         42.0%;
90.0%;
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                                                          Score 8.4; 1
Pred. No. 87
                                                   Mismatches
                                                                 DB 1;
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AAZ86053/c
ID AAZ860)
XX
AC AAZ860)
XX
DT 07-APR
XX
DE Metast
XX
Human;
KW Human;
KW non-me
KW antime
XX
Homo s
XX
PN WO9965
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PN WO9965
XX
PN 19-JUN
PR 19-JUN 19-JUN-1998; 19-JUN-1998; 19-JUN-1998; 19-JUN-1998; WO9965928-A2 Homo sapiens non-metastatic breast tur antimetastatic; vaccine; Metastatic breast tumour cell downregulated transcript 07-APR-2000 AAZ86053 standard; DNA; 10 19-JUN-1998; 18-JUN-1999; metastatic breast tumour tissue; (first entry) 98US-0089853. 98US-0089997. 98US-0090039. 98US-0090040. 99WO-US13647 tumour tissue; gene ne; diagnosis; ss. ΒP breast cancer; tag; therapy; anticancer;

tag

#5287.

(GENZ ) GENZYME CORP

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RESULT 92
AAI67394/c
ID AAI67394;
XX
AC AAI67394;
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AC AAI67394;
XX
DT 11-FEB-2002 (first
XX
DE Human FKBP8 gene pol
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DE Human FKBP8 gene pol
XX
DE Homo sapiens.
XX
W0200172965-A2.
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PN W0200172965-A2.
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ANASTASIO AE, Benti
PI Stephens JC;
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metasta Diagnosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer -
                                                                                                                            26-MAR-2001; 2001WO-US09718.
                                                                                                                                                                                                                                                                                    FK506-binding protein 8; FKBP8; haplotyping; polymorphism; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 10 BP; 0 A; 4 C; 4
                                                                                          24-MAR-2000; 2000US-192125P.
                                                                                                                                                                                                                                                                                                                         Human FKBP8 gene polymorphism detecting primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 1; Page 199; 219pp; English.
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                                                         (GENA-) GENAISSANCE PHARM INC
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                      Bentivegna SC,
                                                                                                                                                                                                                                                                       human; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
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90.0%;
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                      Choi JY,
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                    SE,
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                                                                                  The invention relates to a human normal hepatocyte expression gene group comprising 200 genes in the human normal hepatocyte. The CDNA of each gene comprises one of 200 fully defined nucleotide sequences as given in the specification. The gene group and the cDN corresponding to each of the genes in the group are useful in the diagnosis and treatment of human hepatopathy. The present sequence is a cDNA corresponding to a gene expressed by normal human
      Sequence 10
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                                                                                                                                                                                                                                                                                                                                  Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-629566/73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-JAN-2000; 2000JP-0023170.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human normal hepatocyte
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          polymorphisms
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 16; Page 15; 98pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New haplotypes of the FK506-binding protein 8 gene, useful for genotyping that gene in individual and to design new therapy for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-626261/72.
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                                                                                                                                                                                                                                                                                                                                                                                         normal hepatocyte expression gene
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                                                                                                                                                                                                                                                                                                                               Page 9;
      BP; 1 A; 3 C; 4 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GIJUTSU SHINKO JIGYODAN.
                                                                                                                                                                                                                                                                                                                            26pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          entry)
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Query Match Best Local Similarity

42.0**%**; 90.0**%**;

Score 8.4; D Pred. No. 87;

DB 1;

Length 10;

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RESULT 94
AAH76342/c
ID AAH763
RESULT 95
AAH76345
ID AAH76
XX
AC AAH76
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Best Local (
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                                                                                                                                                                                                                                                                                                                                    The invention provides a male tissue-preferred regulatory region (I) comprising nucleotide sequences essential for initiating transcription of the MS45 gene. A method of mediating male fertility in a plant is
                                                                                                                                                                                                                                                                                                                                                                                                           A male tissue-preferred regulatory region comprising nucleotide sequences essential for initiating transcription of the MS45 ge useful for mediating fertility in a male plant -
                        29-OCT-2001
                                                AAH76345;
                                                                        AAH76345 standard; DNA; 10 BP
                                                                                                                                                                                                                              Sequence 10 BP;
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                                                                                                                                                                                                                                                               promoter region, used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-514772/56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13-FEB-2001; 2001WO-US04527.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (PION-) PIONEER HI-BRED INT INC
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mays Ms45 promoter deletion mutant fragment LS05
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                                                                                                                                                                              Conservative
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hybrid seed;
                        Ms45;
                      male tissue; regulatory region; transcription; male fertility;
promoter; ss.
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WO200160997-A2

23-AUG-2001

13-FEB-2001; 2001WO-US04527

15-FEB-2000; 2000US-0504487

(PION-) PIONEER HI-BRED INT INC

Albertsen MC, Fox ¥, Garnaat CW, Huffman ດ Kendall

WPI; 2001-514772/56

A male tissue-preferred regulatory region comprising nucleotide sequences essential for initiating transcription of the MS45 gene for mediating fertility in a male plant

Example 5; Fig 8; 50pp; English.

provided that involves introducing an expression vector comprising a promoter operably linked to (I) into a plant where the exogenous gene impacts male fertility of the plant and (I) controls expression of the exogenous gene. A method of producing hybrid seeds is also provided. Sequences AAH76341-355 represent a series of 5' deletions in the Ms45 promoter region, used for determining the essential region of MS45 comprising nucleotide sequences essential for initiating transcription of the MS45 gene. A method of mediating male fertility in a plant is The invention provides a male tissue-preferred regulatory region (I) promoter. transcription

Sequence 10 BP; 0 ? 5 C; 5 G; 0 U; 0 other;

S Matches Query Match Best Local Similarity 9; Conserv CGGGCCAGGC Conservative 13 42.0%; 90.0%; 0, Score 8.4; D Pred. No. 87; Mismatches BB <u>ب</u> ۲. Length 10; Indels 0 Gaps 0

밁 ceeccceec 10

RESULT 96

AAH76348 standard; DNA; 10 ВP

AAH76348

29-OCT-2001 (first entry)

Z. mays Ms45 promoter deletion mutant fragment LS08

hybrid Ms45; male tissue; regulatory region; transcription; seed; promoter; male fertility;

WO200160997-A2

23-AUG-2001

13-FEB-2001; 2001WO-US04527

AAH76348/c
ID AAH763
XX
AC AAH763
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AC Z- may
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DF Z- may
XX
KW Ms45;
KW Mybrid
XX
KW hybrid
XX
Cea ma
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PION-15-FEB-2000; 2000US-0504487

(PION-) PIONEER HI-BRED INT INC

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RESULT 97
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Matches 9
                 The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention provides a male tissue-preferred regulatory region (I) comprising nucleotide sequences essential for initiating transcription of the MS45 gene. A method of mediating male fertility in a plant is provided that involves introducing an expression vector comprising a promoter operably linked to (I) into a plant where the exogenous gene impacts male fertility of the plant and (I) controls expression of the exogenous gene. A method of producing hybrid seeds is also provided. Sequences AAH76341-355 represent a series of 5' deletions in the MS45 promoter region, used for determining the essential region of MS45
                                                                                                                                                                                                                   New isolated polynucleotides, useful type, such as cancer cell, comprises particular cell types -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; transcriptome; gene expression pattern; cancer; cancer diagnosis; cell specific gene expression; ss.
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     cancer specific
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                                                                                                                                                                      Page 48; 94pp;
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XX AAH635
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XX Human
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XX Cancer
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cell specific gene expression
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RESULT 100
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ID AAH638
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XX AAH638
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RESULT 101
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The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce
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particular cell types -
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                                                                                                               67; 94pp; English
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RESULT 102
AAH64389/c
ID AAH643
XX AAH643
AC AAH643
XX Human
XX Human
XX Human
XX Homo s
XX Claim
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  RESULT 103
AAH64390/c
ID AAH641
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AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce
AAH64390 standard; cDNA;
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                                                                                                                                                                                                                                                                                                                                                            Sequence 10 BP; 1 A; 3 C; 4 G; 2 T; 0 other;
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9; Conserv
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90.0%;
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Pred. No. 87;
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21-NOV-2000; 2000WO-US31922.

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RESULT 104
AAH64391/c
ID AAH643
XX
AC AAH643
XX
AC AAH643
XX
DT 20-SEP
XX
Human
XX
KW Human;
KW Human;
KW Cancer
XX
W Cancer
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W Cancer
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DS Homo s
XX
PN WO2001
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PD 31-MAY
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PD 31-MAY
XX
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cancer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cancer specific gene expression, standardise expression and restore the function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.
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                                                              31-MAY-2001.
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9; Conserv
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Pred. No. 87;
0; Mismatches 1
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RESULT 105
AAH64392/c
ID AAH643
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                                                                                            New isolated polynucleotides, useful type, such as cancer cell, comprises particular cell types -
AAH63161-AAH64724 is ex in the invention
  The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously
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RESULT 106
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Matches 9
                                                                                                                                                                                                                                                                                                                      The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences
AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cancer specific gene expression, standardise expression and restore the function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.
                                                                                                                                                                                                                                             cancer specific gene expression, standardise expression and function of a diseased cell or tissue. The present sequence the transcriptomes described in the exemplification of the i
                                                                                                                                                                                                Sequence 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         type, such as cancer cell, particular cell types -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated polynucleotides, useful type, such as cancer cell, comprises
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Pred. No. 87
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RESULT 107 AAH64394/c

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RESULT 108
AAH33882/C
ID AAH328
XX AAH328
AC AAH328
XX 13-AUG
DT 13-AUG
DT 13-AUG
CXX Human;
KW Expres
XX Homo s
XX Homo s
XX JP2001
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                                                                                                                                                                 13-AUG-2001
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                           21-MAR-2001
                                                                                                             Human; LPS; lipopolysaccharide; monocyte
                                                                                                                                                                                                                                                                                                                                                                             Sequence 10 BP; 1 A; 3 C; 4
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 28-APR-2000; 2000JP-0131079.
                                                  JP2001069993-A.
                                                                                                  expressed sequence
                                                                                                                                       LPS activated human
                                                                                                                                                                                          AAH32882;
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                                                                           sapiens
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                                                                                                                                                                                                                                                                                                                             Similarity 9; Conserv
                                                                                                                                                                                                                                                                              GCCTGGCCAA
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                                                                                                                                      monocyte expression gene cDNA tag SEQ:255
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                                                                                                 expression gene; tag; EST;
disease; treatment; ss.
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RESULT 109
AAF74058/C
ID AAF740
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AC AAF740
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                                                    Disclosure;
                                                                                                                             New isolated polynucleotide comprising a polymorphic variant for solute carrier family 6 neurotransmitter transporter, serotonin 4 gene for identifying drugs for treating disorders related to
                                                                                                            expression of the protein
                                                                                                                                                                                                                                                                                                                                                                                                        29-JUL-1999;
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RESULT 110
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The present invention describes an isolated DNA molecule comprising a coding sequence of a yeast gene selected from a group of 745 NORF (not previously assigned open reading frame; or nonannotated ORF) genes comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose expression varies as in M1, where a test substance which modifies the expression of the yeast gene is a candidate antifungal drug; (3) a method (M3) for identifying human genes which are involved in cell cycle at least 10 contiguous nucleotides of a NORF gene whose expression varies as in M1; and (4) a method (M4) for identifying a candidate drug as a method fung a characteristic effect on gene
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cycle comprising administering a NORF gene whose expression varies by least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose expression varies as in M1, where a test substance which modifies the expression of the yeast gene is a candidate antifungal drug; (3) a met (M3) for identifying human genes which are involved in cell cycle The present invention describes an isolated DNA molecule comprising a coding sequence of a yeast gene selected from a group of 745 NORF (not previously assigned open reading frame; or nonannotated ORF) genes comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (MI) of using NORF genes to affect the cell affecting ast gene coding sequences comprising gene expression (SAGE) tags, useful 1; Page 391; 419pp; English expression (SAGE) tags, use ng phases of the cell cycle NORF genes with serial analysis for studying, monitoring and

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RESULT 112
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                  The present invention describes an isolated DNA molecule comprising a coding sequence of a yeast gene selected from a group of 745 NORF (not previously assigned open reading frame; or nonannotated ORF) genes comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log phase. S phase and G2/M; (2) a method (M2) for screening candidate
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                                                                                                                                                                                                                                                  Example;
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                                                                                                                                                                                                                                                                                              ast gene coding sequences comprising NORF genes with serial gene expression (SAGE) tags, useful for studying, monitoring phases of the cell cycle -
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                                                                                                                                                                                                                                                  Page 40;
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drugs comprising:
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Pred. No. 87;
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progression comprising contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies as in M1; and (4) a method (M4) for identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell comprising contacting a yeast cell with a candidate drug and monitoring expression in the yeast cell of at least 1 NORF gene whose expression is affected by the class of drugs. The NORF genes may be used to study, monitor and affect phases of the cell cycle, the differentially expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs. AAF33268 to AAF44064 represent SAGE tags used in the exemplification of the present invention. AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                         expression varies as in M1, where a test substance which expression of the yeast gene is a candidate antifungal di (M3) for identifying human genes which are involved in ce
Sequence 10
                                                    invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       yeast cell; and (b) monitoring expression of a NORF
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C; 3
G; 2 T; 0 other;
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뭐 Ş Query Match Best Local S Matches 9 10 σ Similarity 9; Conserv GGCCAGGGCA GGCCAGGCCA Conservative 15 42.0%; 90.0%; Score 8.4; DB Pred. No. 87; 0; Mismatches 0 DB 1; 1; Length 10; Indels 0 Gaps

0

Yeast NORF 23-MAR-2001 AAF35939 gene SAGE tag oligonucleotide SEQ ID NO:2678 (first entry)

AAF35939 standard; DNA; 10

ВP

Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; nor previously assigned open reading frame; nonannotated ORF; (serial analysis of gene expression; antifungal; tag; identifications.) linker; PCR primer; tag; identification SAGE

Saccharomyces cerevisiae

WO200077214-A2

21-DEC-2000

14-JUN-2000; 2000WO-US16223

16-JUN-1999; 9908-0335032

(UYJO ) UNIV JOHNS HOPKINS

Velculescu V, Vogelstein B, Kinzler K;

2001-061874/07

Yeast gene coding sequences comprising of gene expression (SAGE) tags, useful affecting phases of the cell cycle -NORF genes with serial aufor studying, monitoring . analysis .ng and

Example; Page 95; 419pp; English.

RESULT 113
AAF35939/c
ID AAF359
XX AAF359
XX Yeast;
AC Yeast;
KW Yeast;
KW nor pr
KW Serial
KW Iinker
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CC Compri The present invention describes an isolated DNA molecule comprising coding sequence of a yeast gene selected from a group of 745 NORF (repreviously assigned open reading frame; or nonannotated ORF) genes comprising a SAGE (serial analysis of gene expression) tag. Also method (<u>M</u> of using NORF t 0 tag. affect the cell ω

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contacting a test substance with

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RESULT 114
AAF41896/c
ID AAF418
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                                                                 Yeast gene coding sequences comprising NORF genes with serial analysis of gene expression (SAGE) tags, useful for studying, monitoring and affecting phases of the cell cycle -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nor previously assigned open reading frame; nonannotated ORF; SAGE; serial analysis of gene expression; antifungal; tag; identification; linker; PCR primer; ds.
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Example; Page 308; 419pp; English
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                                                                                                                                                                                                                                                                                     Kinzler K;
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The present invention describes an isolated DNA molecule comprising

Yeast gene coding sequences comprising of gene expression (SAGE) tags, useful affecting phases of the cell cycle -

NORF genes with serial analysis for studying, monitoring and

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RESULT 115
AAF42385
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CAAF33268 to AAF44064 represent SAGE tags used in the exemplification of the present invention. AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present
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                                                                    WPI; 2001-061874/07.
                                                                                                         Velculescu V,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAF42385 standard; DNA; 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose
                                                                                                                                              (UYJO ) UNIV JOHNS HOPKINS
                                                                                                                                                                                   16-JUN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11 GGCCAAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity 9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                         primer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                         Vogelstein B,
                                                                                                                                                                                   99US-0335032
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 8.4;
Pred. No. 8
                                                                                                         Kinzler K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            87;
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Example; Page 325; 419pp; English.

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RESULT 116
AAF43779/c
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CC the differentially expressed genes may be used as markers of phases of the cell cycle and for identification of antifungal drugs.

CC AAF33268 to AAF44064 represent SAGE tags used in the exemplification of the present invention. AAF33267 to AAF33267 represent linkers and PCR methods may be used to identify candidate drugs which continues used in the SAGE method. In the exemplification of the necessor in the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local (
                                                                                                                                                                                                                                                                                                            Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF; nor previously assigned open reading frame; nonannotated ORF; SAGE; serial analysis of gene expression; antifungal; tag; identification; linker; PCR primer; ds.
WPI; 2001-061874/07
                                                                                                                                                                                                                                                                        Saccharomyces cerevisiae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAF43779 standard; DNA; 10 BP
                                      Velculescu V, Vogelstein B,
                                                                                                                                                       14-JUN-2000; 2000WO-US16223
                                                                                                                                                                                                                                      WO200077214-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                23-MAR-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAF43779;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 10 BP; 4 A; 3 C; 3 G; 0 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         primers used in the SAGE method, in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes an isolated DNA molecule comprising coding sequence of a yeast gene selected from a group of 745 NORF (r
                                                                                                                   16-JUN-1999;
                                                                            (UYJO ) UNIV JOHNS HOPKINS.
                                                                                                                                                                                                                                                                                                                                                                                                               NORF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7 GCCAGGCCAA 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                             gene
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                                                                                                                   99US-0335032
                                                                                                                                                                                                                                                                                                                                                                                                               SAGE
                                                                                                                                                                                                                                                                                                                                                                                                           tag oligonucleotide
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Pred. No. 87;
                                      Kinzler K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                           SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                           NO:11918
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
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Yeast gene coding sequences comprising NORF genes with serial analysis of gene expression (SAGE) tags, useful for studying, monitoring and affecting phases of the cell cycle -

Example; Page 375; 419pp; English

Cycle comprising administering a NORF gene whose expression varies by at CC least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate antifungal drugs comprising; (a) contacting a test substance with a CC yeast cell; and (b) monitoring expression of a NORF gene whose CC expression of the yeast gene is a candidate antifungal drug; (3) a method (M3) for identifying human genes which are involved in cell cycle (M3) for identifying contacting human DNA with a probe which comprises CC at least 10 contiguous nucleotides of a NORF gene whose expression varies at least 10 contiguous nucleotides of a NORF gene whose expression varies of a in M1; and (4) a method (M4) for identifying a candidate drug as a candidate drug and monitoring expression in the yeast cell with a CC candidate drug and monitoring expression in the yeast cell with a CC candidate drug and monitoring expression in the yeast cell of at least 1 CC nort gene whose expression is affected by the class of drugs. The NORF CC genes may be used to study, monitor and affect phases of the cell cycle. The methods may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which a caffect the cell cycle and for identification of antifungal drugs.

CC AAF33268 to AAF44064 represent SAGE method, in the exemplification of the present consent. The present invention describes an isolated DNA molecule comprising a coding sequence of a yeast gene selected from a group of 745 NORF (not previously assigned open reading frame; or nonannotated ORF) genes comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell

Sequence 10 BP; 0 A; 4 C; 3 G; 3 T; 0 other;

5 В Matches Query Match Best Local 10 7 GCCAGGCCAA 16 Similarity 9; Conserv GCGAGGCCAA 1 Conservative 42.0%; 0; Mismatches Pred. No. 87; Score 8.4; DB 1; Length 10 Indels 0 Gaps 0

ABV844 RESULT 117

ABV84222 standard; cDNA; 10 BP

12-DEC-2002 (first entry)

Human heat shock protein 40 (HSP40-1) SAGE tag #32.

SAGE tag; serial analysis of gene expression; human; chronic hepatitis CH; liver tissue; hepatocellular carcinoma; cancer; tumour; HCC; expression pattern; differential expression; ss. G

Homo sapiens.

JP2002209591-A

30-JUL-2002

19-JAN-2001; 2001JP-0012328

19-JAN-2001; 2001JP-0012328

(KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.

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RESULT 118
ABV84641/c
ID ABV846
XX ABV846
XX ABV846
XX 12-DEC
XX Human
XX SAGE t
KW CH; 11
KW EXPRES
KW SS.
XX SS.
XX JP2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                              Human chronic hepatitis C t comprises 100 high-ranking
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JP2002209591-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CH; liver tissue; hepatocellular carcinoma; cancer; tumour; HCC;
expression pattern; differential expression; EST; expressed sequence tag;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SAGE tag; serial analysis of gene expression; human; chronic hepatitis C; CH; liver tissue; hepatocellular carcinoma; cancer; tumour; HCC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   expressed genes out of those genes which are overexpressed in chronic hepatitis C liver tissue compared with normal liver tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human chronic hepatitis C tissue expression exasperating gene group comprises 100 high-ranking genes -
                               Claim 37; Page 23; 139pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                            19-JAN-2001; 2001JP-0012328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human HCC/chronic hepatitis C differentially expressed EST SAGE tag
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                                                                                                                                                                                                       WPI; 2002-631294/68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                      (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
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                                                                                                                                                                                                                                                                                                                                         2001JP-0012328
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90.0%;
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                                                                                                            expression exasperating gene group
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RESULT 119
ABV84947/c
ID 4947/c
ID 494949
XX ABV849
XX ABV849
XX SAGE t
KW CH; li:
KW CH; li:
KW expres
XX JP2002
XX T19-JAN
XX LOUGHOUTI
XX Claim
XX Clai
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                            The invention relates to SAGE (serial analysis of gene expression) tags representing groups of genes which are differentially expressed in human chronic hepatitis C (CH) liver tissue or hepatitis C-induced hepatocellular carcinoma (HCC) compared with normal human liver tissue. The SAGE tags of this invention consist of a sequence of 10 nucleotides located downstream of the 5'-CATG-3' sequence motif lying nearest to the polyA region of cDNAs derived from a variety of genes. These tags serve
                                                                                                                                                                                                                                                                                                                                                                                  Human chronic hepatitis C tissue expression exasperating gene group comprises 100 high-ranking genes -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             expression pattern;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SAGE tag; serial analysis of gene expression; human; chronic hepatitis C; CH; liver tissue; hepatocellular carcinoma; cancer; tumour; HCC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human multiple HCC highly expressed genes SAGE tag #757
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABV84947 standard; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 10, BP; 1 A; 2 C; 3 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-631294/68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19-JAN-2001; 2001JP-0012328.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
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                                                                                                                                                                                                                                                                                                             31; 139pp; Japanese.
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                                                                                                     The invention relates to SAGE (serial analysis of gene expression) tags representing groups of genes which are expressed in activated human Thl and/or Th2 cells. The SAGE tags of this invention consist of a sequence of 10 nucleotides located downstream of the 5'.CATG-3' sequence motif lying nearest to the polyA region of cDNAs derived from a variety of genes. These tags serve to uniquely identify each transcript and can thus be used to analyse the pattern of gene expression in particular cell types. The invention also relates to proteins encoded by the genes expressed in Th1 and/or Th2 cells, antibodies against these proteins, and inhibitors of the expression of groups of genes that are expressed in either or both the two cell types. Groups of genes expressed in Th1 and/or Th2 cell types may be used for the diagnosis and treatment of Th1 and Th2-related disorders. Sequences ABV78140-ABV78389 are SAGE tags
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              pattern of gene expression in particular cell types. The invention also relates to proteins encoded by the genes expressed in chronic hepatitis C liver tissue or HCC, antibodies against these proteins, and inhibitors of the expression of groups of genes that are overexpressed in chronic hepatitis C liver tissue or HCC. Groups of genes differentially expressed in chronic hepatitis C tissue or HCC may be used for the diagnosis and treatment of these diseases. Such genes, inhibitors of their expression or activity, and antibodies against the gene products may be used in the development of drugs to treat chronic hepatitis C and/or HCC. Sequences ABV84891-ABV84990 are SAGE tags representing 100 genes which are highly expressed in hepatocellular carcinoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SAGE tag; serial analysis of gene expression; human; Th2 cell; activated T cell; T lymphocyte; immune response; expression pa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 10; Page 9; 60pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diagnosis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       activated Th1 and Th2 cell expression gene group, useful for the osis and treatment of Th1 and Th2-related diseases -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10
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                                                                        are most highly expressed in
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Pred. No. 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
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                                                                                              CC first nucleotide sequence which comprises solute carrier family 1

CC (glutamate/neutral amino acid transporter), member 4 (SLC1A4) isogenes

CC (II) and an isolated polypeptide (III) comprising an amino acid sequence

CC which is a polymorphic variant of a reference sequence for SLC1A4

CC protein. Also described are methods for: (1) haplotyping or genotyping

CS SLC1A4 gene of an individual; (2) identifying an association between a trait and

CC gene of an individual; (3) identifying an association between a trait and

CC at least one haplotype or haplotype pair of SLC1A4 gene. (III) Is useful

CC cancer, neurological diseases and amino acid transporter disorders. The

CC center, neurological diseases and amino acid transporter disorders. The

CC center, neurological diseases and amino acid transporter disorders. The

CC center, neurological diseases and amino acid transporter disorders. The

CC center seems in the discovery and development of drugs for treating

CC center seems associated with SLC1A4 activity. The haplotyping method is also

CC center transporter disorders, and in the design of clinical

CC trials for treating a specific condition or disease predicted

CC trials for treating a specific condition of disease associated with

CC trials for treating a specific condition of disease associated with

CC trials for treating a specific condition of disease associated with

CC trials for treating a specific condition of disease associated with

CC trials for treating a specific only is useful in dispnostic,

CC prognostic and therapeutic methods. ARMS95761-ARMS9577 represent

CC collectides and related PCR primers used to identify single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local :
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                                                                            nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 17; Page 16; 139pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to an isolated polynucleotide (I) comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GENA-) GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             genetic variants of Solute Carrier Family 1 (Glutamate/Neutral
Acid Transporter), Member 4 isogenes, for improving efficiency
eliability in drug development for treating cancers -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10
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                                                                            polymorphisms
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Pred. No. 87;
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                                                                                The invention relates to an isolated polynucleotide (I) comprising a first nucleotide sequence which comprises solute carrier family 1 (glutamate/neutral amino acid transporter), member 4 (SLC1A4) isogenes (II) and an isolated polypeptide (III) comprising an amino acid sequence (III) and an isolated polypeptide (III) comprising an amino acid sequence which is a polymorphic variant of a reference sequence for SLC1A4 (protein. Also described are methods for: (1) haplotyping or genotyping (SLC1A4 gene of an individual; (2) predicting a haplotype pair for SLC1A4 (pene of an individual; (3) identifying an association between a trait and at least one haplotype or haplotype pair of SLC1A4 gene. (III) Is useful in screening for drugs targeting (III) that are useful for treating cancer, neurological diseases and amino acid transporter disorders. The methods are useful for improving the efficiency and reliability of several steps in the discovery and development of drugs for treating diseases associated with SLC1A4 activity. The haplotyping method is also used by the pharmaceutical research scientist to validate SLC1A4 as a candidate target for treating a specific condition or disease predicted to be associated with SLC1A4 activity, e.g. cancer, neurological diseases and amino acid transporter disorders, and in the design of clinical trials for treating a specific condition of disease associated with SLC1A4 activity. The methods are also useful for screening compounds targeting SLC1A4. Anti-SLC1A4 antibody is useful in diagnostic, prognostic and therapeutic methods. ABK95361-ABK95877 represent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 122
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                                SLCIA4 gene allele-specific oligonucleotides, oligonucleotides and related PCR primers used nucleotide polymorphisms (SNP) of the gene.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     genetic variants of Solute Carrier Family 1 (Glutamate/Neutral
Acid Transporter), Member 4 isogenes, for improving efficiency
eliability in drug development for treating cancers -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENAISSANCE PHARM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 16; 139pp;
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Pred. No. 87;
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The present sequence is that of an oligonucleotide used for assaying a CC polymorphism in the zinc finger protein homologous to zfp-36 in mouse CC (ZFP36) gene of the invention. The specification describes a newly consisted polymucleotide comprising a sequence which is a polymorphic control of a reference sequence for the ZFP36 gene (see ABA97001) or control of the zFP36 gene (see ABA97001) or control of the zFP36 polymorphic control of zero control of zFP36 polypeptide. In mounosuppressive and antiarthritic control of zero control of z
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ABA97040/c
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel polymorphic variants of zinc finger protein homologous to zfp-36 in mouse gene, useful in studying expression and function of the protein, useful for screening drugs to treat diseases e.g. rheumatoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               autoimmune disease, rheumatoid arthritis; haplotyping; genotyping; allele specific oligonucleotide; ASO; single nucleotide polymorphism; SNP; zinc finger protein; mouse zfp-36; ss; gene therapy; transgenic;
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IGENA-
                                                                                                                                                                                             The invention relates to single nucleotide polymorphisms in the gene concoding the human B-factor properdin protein (BF). A method for the properding the bar an individual comprises identifying the conclectide at one or more polymorphic sites and determining whether one of the copies of the gene is defined by one of the BF haplotypes given in the specification or whether both copies are defined by a haplotype pair. This method is useful in genotyping, whereby all possible haplotype pairs can be assigned to specific genotypes. An association between a trait and the frequency of the haplotype pair in a polymorphy or haplotype pair of the BF gene can be identified by comparing the frequency of the haplotype pair in a compulation exhibiting the trait with the frequency of the haplotype or haplotype pair in a reference population, where a higher haplotype concept and the trait population indicates the trait is associated with the haplotype or haplotype pair. BF and its corresponding DNA are used the haplotype or haplotype pair. BF and its corresponding bare are used conceptually in the expression and function of BF, for use in screening for candidate drugs to treat diseases related to BF activity, such as concepts and systemic lupus erythematosus. Sequences ABK6405-ABK64105 capitals and allele-specific PCR primers used to detect human BF gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
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   Query Match
Best Local S
Matches 9
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New genetic variants having polymorphisms in the B-Factor, Properdin (BF) gene, useful for studying the function of BF, and for treating disorders affected by expression or function of the BF isogene -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; B-factor; properdin; BF; primer; ss; ger antidiabetic; dermatological; diabetes; immunos antiinflammatory; systemic lupus erythematosus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 19; Page 16; 151pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Anastasio AE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-AUG-2000; 2000US-228940P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human BF gene allele-specific oligonucleotide PCR primer #5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABK64054;
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      Similarity 9; Conserv
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                                                                                                                       10 BP;
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90.0%;
                                                                                                                       C; 3
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   Score 8.4; DB Pred. No. 87; 0; Mismatches
      0
                                                                                                                       G; 4 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           G; 1 T; 0 other;
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Pred. No. 8
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                                                                                                                       other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ss; gene therapy; drug immunosuppressive;
                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
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                                                      Length 10;
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Gaps
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0;
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RESULT 126
ABK23567/c
ID ABK235
XX
AC ABK235
XX
DT 09-APR
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AAS19876
ID AAS198
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (SNPs) in the human Ran GTPase activating protein 1 (RANGAP1) gene located on chromosome 22q13.2-q13.31, and methods for haplotyping and/or genotyping the RANGAP1 gene. The methods of the invention make use of allele-specific oligonucleotides (ASOs) as probes and primers and/or primer-extension oligonucleotides for detecting the RANGAP1 gene polymorphisms. The polynucleotides and screened compounds are useful for treatment of diseases associated with RANGAP1 activity, such as cancer and other disorders associated with an irregular cell cycle. AAS19821-AAS19898 represent primer-extension oligonucleotides for detecting human RANGAP1 gene polymorphisms.
                                                           ABK23567;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Genotyping human Ran GTPase activating protein 1 gene of individual for determining haplotype of individual, involves determining identity of nucleotide pair at specific polymorphic sites for two copies of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; single nucleotide polymorphism; SNP; RANGAP1; haplotyping chromosome 22q13.2-q13.31; Ran GTPase activating protein 1; geno cancer; irregular cell cycle associated disorder; primer; ss.
                                                                                                                      ABK23567 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (SNPs) in the human
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9; Conserve
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                                                                                                                                                                                                                                                                                                                          GGCCAGGCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Choi JY, Koshy B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGCCAAAGAC 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 3 A; 3 C; 4 G; 0 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 invention relates to novel single nucleotide polymorphisms he human Ran GTPase activating protein 1 (RANGAP1) gene
                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                   DNA; 10
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Pred. No. 87;
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09-APR-2002

(first entry)

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RESULT 127
ABK24232
ID ABK242
XX ABK242
XX O9-APR
XX Retina
XX Retina
XX Genoty
KW Human;
KW Human;
KW Genoty
KW chromo
XX Chromo
XX Homo 8
XX Homo 8
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PF 09-MAY
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Best Local S
Matches 9
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                                                                                                                        Human; retinaldehyde-binding protein 1; ss; RLBP1; haplotype; primer; genotyping; probe; autosomal recessive retinitis pigmentosa; arRP; PC chromosome 15q26; transgenic; ASO; allele specific oligonucleotide.
                                                                                                                                                                                                                                                                                  ABK24232 standard; DNA; 10
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therapies a
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29-JUN-2000; 2000EP-0202284.
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29-MAY-2001; 2001WO-US17252
                                06-DEC-2001
                                                                                                                                                                                    Retinaldehyde-binding protein 1 ASO primer extension
                                                                                                                                                                                                                    09-APR-2002
                                                                                                                                                                                                                                                     ABK24232;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 10 BP; 0 A; 5 C; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to a nucleic acid library comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 53; 69pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A new nucleic acid library of myc-dependent downstream
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                                                                                          Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                              10 GGGCAGGCCA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g a neoplastic characteristic of cancer is useful to find new and diagnoses for cancer -
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                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                    (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    repressed by N-myc in human neuroblastoma.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AMSTERDAM
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                                                                                                                                                                                                                   entry)
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90.0%;
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Pred. No. 87;
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to
                                                                            26-MAY-2000; 2000US-207618P
                                                             RLBP1 activity
                                                                         GENAISSANCE PHARM INC
                                                                       Kazemi A,
                                                                       Koshy B;
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New genetic variants having polymorphisms in the retinaldehyde-binding protein 1 gene, useful for studying the function of and for expressing RLBP1 protein for use in screening drugs for treating diseases related

Claim 18; Page 14; 107pp; English

CC genes and haplotypes of the retinaldehyde-binding protein (RBPI) gene. CC genes and haplotypes of the retinaldehyde-binding protein 1 (RBPI) gene. CC are referred to as 891-24 to designate the order in which they are composited in the gene. Also included are methods for haplotype pair for the RLBPI gene of an individual, a method for preddicting a genotyping the RLBPI gene of an individual, a method for preddicting a composition comprising at the first protein 1 (RBPI) gene of an individual, a method for preddicting a genotyping oligonucleotide for detecting a polymorphism in the RLBPI gene of an individual, a method for preddicting a polymorphy gene of the RLBPI gene, a composition comprising at least one haplotype or composition comprising a set of oligonucleotides designed to genotype each individual comprising a set of oligonucleotides designed to genotype each of protein encoded by the polymorphic wariant sequence or expresses an RLBPI protein encoded by the polymorphic variant sequence or expresses an RLBPI protein encoded by the polymorphic variant sequence or expresses an RLBPI conjugate omprising an amino acid sequence that is a polymorphic comprising an amino acid sequence or expresses an RLBPI colymorphism data for the RLBPI protein or its fragment. The polymorphism data for the RLBPI protein or storing and analysing polymorphism data for the RLBPI protein or storing and analysing polymorphism data for the RLBPI and in screening candidate drugs to treat specific polymorphism and function of RLBPI and in screening candidate drugs to treat specific polymorphism and the polymorphism and the polymorphism data for the RLBPI and the polymorphism data for the RLBPI process, including target validation, can denity function of designing claimative (e.g. autosomal recessive readitive to be associated with RLBPI and on polymorphism and the process of condition or disease are calculated to be associated with RLBPI activity. The kit and method are useful for designing and testing a polymorphism and a polymorph polymorphic RLBP sequence, using the invention relates to an isolated polynucleotide, which comprises primer extension method n 1 (RLBP1) genc.

Sequence 10 BP; 3 A; 4 C; 3 G; 0 U; 0 other;

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Best Local S
Matches 9
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                         Similarity 9; Conserv
            CCAGGCCAAA
                          Conservative
10
            17
                                42.0%;
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Pred. No. 87;
                           Mismatches
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                                       Length 10
                           Indels
                         0,
                         Gaps
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RESULT 128 AAS99275 ID AAS991

AAS99275 standard; 10

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                                                                                                                                            nucleotide at one or more polymorphic sites and determining whether one of the copies of the gene is defined by one of the F12 haplotypes given in the specification or whether both copies are defined by a haplotype can be assigned to specific genotypes. An association between a trait and a haplotype or haplotype pair of the F12 gene can be denified by comparing the frequency of the haplotype or haplotype pair in a population exhibiting the trait with the frequency of the haplotype or haplotype pair in a reference population, where a higher haplotype or haplotype pair in a reference population, where a higher haplotype or haplotype pair. F12 and its corresponding DNA are used for studying the expression and function of F12, for use in screening for candidate drugs to treat disorders related to F12 activity such as coronary artery disease also useful for studying the sequences are also useful for studying the sequences are also useful for studying the expression of F12 activity of candidate drugs targeting F12. Sequences AAS9920-AAS99305 represent probes, primers and primer tails used to detect F12 gene polymorphisms.
                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to single nucleotide polymorphisms in the gene encoding the human coagulation factor XII (F12) polypeptide. A metho haplotyping the F12 gene in an individual comprises identifying the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel isolated human coagulation factor XII polynucleotide, F12 use for treatment of e.g. coronary artery disease, comprises a sequence which is a polymorphic variant of a reference sequence for F12 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     single nucleotide polymorphism; genotyping; gene therapy; drug screening; coronary artery disease; liver disease; spontaneous abortion; cardiant; Alzheimer's disease; blood coagulation; hepatotropic; neuroprotective;
                                                                                                                                          Sequence 10
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                                                                                                                                          BP; 3 A; 3 C; 3
                                                                      Conservative
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Pred. No. 87;
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RESULT 129 AAS16750/c

Human; maturation/activation dendritic cell; ss. maturation; activation; dendritic cell; ss.

expression gene; tag;

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RESULT 130
ABL42671/c
ID ABL426
XX
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XX
DT 12-APR
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DE . Human
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XW matura
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                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to haplotyping the human apolipoprotein A-IV (APOA4) gene of an individual, comprising determining if the individual has one of the APOA4 haplotypes or haplotype pairs fully defined in the specification. Also disclosed are genotyping oligonucleotides (or allele specific oligonucleotides, ASO) as well as methods for correlating a particular haplotype pair with a trait e.g. obesity, in a population. The APOA4 gene is located on chromosome 11923-qter. The methods of the invention are useful to diagnose and develop treatment for disorders associated with abnormal APOA4 expression or function, for example coronary heart disease and atherosclerosis. The APOA4 isogenes and screened compounds are useful for the treatment of disorders associated with abnormal APOA4 expression or function such as coronary artery disease. The present sequence is the terminus of an APOA4 allele specific disease. The present sequence is the terminus of an APOA4 allele specific
                                              Human maturation/activation dendritic cell expression gene tag #45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; ss; APOA4; apolipoprotein A-IV; antiaun haplotype; chromosome 11q23-qter; coronary hea atherosclerosis; PCR primer; primer extension.
                                                                                                                                                                                                                                                                                                                                                          Sequence 10 BP; 0 A; 5 C; 3
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                                                                                12-APR-2002
                                                                                                              ABL42671
                                                                                                                                              ABL42671 standard;
                                                                                                                                                                                                                                                                                                                                                                                                         oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 17; Page 15; 71pp;
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                                                                                                                                                                                                                                                                                          Conservative
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                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                         ASO, primer extension PCR primer used
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90.0%;
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ABV62380
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Best Local
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In vitro identification of skin-expressed genes, useful for determining homeostasis and identifying cosmetic or pharmaceutical agents against
                                                                                                                                                                                                                                     Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention describes a human maturation/activation dendriticell (DC) expression gene group consisting of 100 genes which show the
                                                                                                               03-JAN-2001; 2001DE-1000127
                                                                                                                                         20-DEC-2001;
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                                                                                                                                                                                                                                                                                          Human skin EST 166.
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                                                                             The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression. (M1) is useful for identifying genes involved in skin homeostasis; to determine skin homeostasis and to test agent (A) that maintains or
                                                                                                                                                                                                                                                                                                                                                            e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
                                                                                                                                                                                                                                                                                                                                                                                     In vitro identification of skin-expressed homeostasis and identifying cosmetic or ph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 03-JAN-2001; 2001DE-1000127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-DEC-2001; 2001WO-EP15179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200253774-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABV69801;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABV69801 standard; cDNA; 11 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 11 BP; 1 A; 4 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disorders, specifically neurodermatitis; sunburn; psoriasis; sclerodichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 30; 1345pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      e.g. skin cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (HENK ) HENKEL KGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human skin EST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2002-590638/63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
9; Conserv
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                                                                                                                                                                                                                                                                                                    Page
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90.0%;
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                                                                                                                                                                                                                                                                                                 1345pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hofmann
                                                                                                                                                                                                                                                                                                       German.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 8.4; DB 1;
Pred. No. 1.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ζ,
                                                                                                                                                                                                                                                                                                                                                                                        ed genes, useful for pharmaceutical agent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
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                                                                                                                                                                                                                                                                                                                                                                                           against
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promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; sc

atopic dermatitis; acne; seborrhea; lupus erythematosus;

scleroderma;

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RESULT 133
AAX54916
ID AAX549
XX AAX549
XX AAX549
XX AAX549
XX AAT1Se
DT 05-JUL
XX C/EBP-
XX Antise
KW impair
KW colon
KW colon
KW colon
KW colon
KW pulmon
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KW pulmon
KW colon
KW posta
OS Synthe
XX V
PF 17-SEP
XX O9-JUN
PR 09-JUN
PR 09-JU
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                The specification describes antisense oligonucleotides (AAX52869-X55271) CC directed against at least 2 mRNAs selected from target genes, coding and CC non-coding regions of RNAs corresponding to target genes, gene CC initiation codons, genomic flanking regions, intron-exon borders, the CC feed, the 3'-end and the juxta-section between coding and non-coding CC regions and all segments of RNAs encoding proteins associated with one CC or more diseases, conditions or mixtures. The antisense oligonucleotides CC may be derived from sequences AAX55272-74. These multiple target CC oligonucleotides (specifically AAX55180-271) can be used for the CC ontisense treatment of diseases and conditions. Typical diseases and CC inflammation, including lung diseases, pulmonary vasoconstriction, including lung diseases, pulmonary vasoconstriction, impeded confilammation, allergic rhinitis, acute asthma, allergies, asthma, impeded confilammation, respiratory distress syndrome, pain, cystic fibrosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
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Best Local S
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 68; 120pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          acute asthma, allergy; asthma; impeded respiration; respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary vasoconstriction; emphysema; chronic obstructive pulmonary disease; leukemia; lymphoma; car colon cancer; breast cancer; lung cancer; pancreatic cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Antisense oligonucleotide; multiple target; antisense treatment, impaired respiration; inflammation; lung disease; pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New antisense oligonucleotides used in treatment of, e.g. pulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-JUN-1998;
17-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-SEP-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 11 BP; 1 A; 4 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag (EST) of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            prostate cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAX54916
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   hypertension,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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97US-0059160.
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90.0%;
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   pulmonary
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Pred. No. 1.1e+02;
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   vasoconstriction,
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   emphysema,
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RESULT 134
AAF20485
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Best Local S
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection; chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Low adenosine antisense oligonucleotide; phosphorothicate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lymphomas, carcinomas e.g. colon cancer, breast cancer, lung cancer, pancreatic cancer, hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, as well as all types of cancers which may metastasize or have metastasized to the lungs, including breast and prostate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (NYCE/) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  06-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-MAR-2001
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      polynucleotide fragment #2052.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EAST CAROLINA
J W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99US-0127958
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Вb
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Pred. No. 1.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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(I) can have respiratory, bronchodilator, antiinflammatory, analgesic, immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. The antisense oligonucleotides and (I) can be used to down-regulate the expression and or activity of target polypeptides associated with lung/respiratory disorders and malignancies, such as stimulating and activating peptide factors and transmitters, transcription factors, immunoglobulins and antibodies, antibody receptors, cytokines and chemokines, endogenously produced specific and non-specific enzymes, chemokines, endogenously produced specific and non-specific enzymes,

proteins,

adhesion molecules and their receptors,

The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base.

Low adenosine (A) content antisense oligonucleotides which trigger adenosine receptors during metabolism, useful e.g. cancers and respiratory obstructions -

do not

treating

Page

262; 1592pp; English

2000-679539/66

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RESULT 135
AAA34363
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothioate; impaired respiration; inflammation; allergy; allergic disease; bronchoconstriction; inhibitor; antiinflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma; respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
The present invention describes a new composition antisense oligonucleotide (ON) with low adenosine
                                                                                                     New antisense oligonuclectides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                                                                                                                                                                                                                                                                                                                                                                24-FEB-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    condition selected from pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), pulmonary transplantation rejection, pulmonary infections, bronchitis, and/or cancer. AAF18434 to AAF21543 represent human polynucleotide fragments and antisense oligonucleotides used in the exemplification o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                chemokine receptors, adenosine receptors, bradykinin receptors, central nervous system (CNS) and peripheral nervous and non-nervous system receptors, CNS and peripheral nervous and non-nervous system peptide transmitters, defensins, growth factors, vasoactive peptides and receptors, binding proteins and malignancy associated proteins. The antisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction)
                                                    Disclosure; Page 523; 1343pp; English
                                                                                                                                                                                WPI; 2000-205971/18
                                                                                                                                                                                                                                                                                         03-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                  WO200009525-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human adenosine receptor related polynucleotide SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cancer; leukaemia;
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                                                                                                                                                                                                                                                     (UYEC-) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                bronchoconstriction) and/or lung inflammation, allergy(ies) surfactant hypoproduction which are associated with a disease or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 CGGGCCAGGC 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity 9; Conserv
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                                                                                                                                                                                                                                                     EAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                         98US-0095212.
                                                                                                                                                                                                                                                                                                                             99WO-US17712.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      lymphoma; carcinoma; metastasis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             42.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 8.4; DB 1;
Pred. No. 1.1e+02;
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comprising an (up to 15%), which
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        exemplification of
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RESULT 136
AAZ59919/C
ID AAZ599
XX AAZ599
XX AAZ599
XX AAZ599
XX COUP-T
XX COUP-T
XX COUP-T
XX COUP-T
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           asthma, impeded respiration, respiratory distress syndrome, pain, cystifibrosis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukaemias, lymphomas, carcinomas, and cancers which may metastasise to the lungs, including breast and prostate cancer. The reduction of the adenosine content of the ONs reduces side effects. The A-containing ONs break down with the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               targets nucleic acids involved in bronchoconstriction, allergies, and/or inflammation. The ON can have antiinflammatory, antiallergic, antiasthmatic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, impaired airways, including lung disease and diseases whose secondary effects afflict the lungs of a subject. They can be used for treating e.g. ischaemic conditions, pulmonary vasconstriction, allergies, e.g. ischaemic conditions, pulmonary vasconstriction, allergies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUP-TF binding site; inverted repeat; minimal packaging element; adenovirus; chicken ovalbumin upstream promoter transcription factor; repressor binding site; DNA delivery; recombinant virus; ds
                                                                                                                         therapy
                                                                                                                                                   Regulating adenoviral packaging by inconsites that allow selective suppression
                                                                                                                                                                                                                                                     WPI; 2000-052657/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                          15-APR-1998;
05-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mastadenovirus.
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                                                                                                                                                                                                                                                                                                                    Schmid
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                                                                                                                                                                                                                                                                                                                                                                                                                                          98US-0081867
98US-0088321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99WO-US08294
                                                                                                                                                                                                                                                                                                                SI,
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                                                                                                                                                                                                                                                                                                                Ostapchuk PH,
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Pred. No. 1.1e+02;
                                                                                                                                                      by incorporation of repressor binding ression of packaging, used for gene
                                                                                                                                                                                                                                                                                                                                                                                  FOUND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        site.
                                                                                                                                                                                                                                                                                                                    Erturk
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The invention relates to the regulation of

adenoviral packaging

Example 5; Page 39; 71pp; English

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       repressor. After propagation, vector packaging is repressed by the appropriate repressor protein. The invention also encompasses an adenoviral vector that includes an adenoviral packaging sequence containing several COUP-TF (chicken ovalbumin upstream promoter transcription factor) binding sites (AAZ59919). Adenoviral vectors containing repressor binding sites are used for DNA delivery, e.g., for expression of a therapeutic protein; in genetic immunisation; or to produce antiviral DNA or antisense RNA. Typical heterologous genes that CC produce antiviral DNA or antisense RNA. Typical heterologous genes that CC produce antiviral DNA or antisense RNA. Typical heterologous genes that CC protein fibrosis transmembrane conductance regulator and coagulation factor VIII. These vectors have very large capacity (up to 36 kb) for foreign DNA, and minimise the risk of generating replication competent virus (since vector and helper virus can be designed such that they have no overlapping packaging sequences that might permit homologous recombination). The presence of the repressor binding site allows selective inhibition of virion production (i.e., packaging of one vector in the presence of another). The present sequence represents a COUP-TF cinverted repeat binding site. COUP-TF binds to the consensus sequence of she repeat and repeat mit homologous sites overlap the A repeat AVI sequence, with other A repeats contain adding sites millar sequence motifs. Binding of COUP-TF can specifically repress
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                 Claim 12; Page 8;
                                                                                                                                      WPI; 2002-668396/72.
                                                                                                                                                                     Van Der Kuyl AC,
                                                                                                                                                                                                                                       23-JAN-2001; 2001EP-0200228.
28-SEP-2001; 2001EP-0203703.
28-SEP-2001; 2001US-325722P.
                                                                                                                                                                                                                                                                                                                                                                             EP1225233-A2
                                                                                    effectiveness of treatment,
                                                                                                Determining presence of a tumor cell or angiogenesis,
                                                                                                                                                                                                                                                                                                          23-JAN-2002; 2002EP-0075264
                                                                                                                                                                                                                                                                                                                                           24-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; Kaposi's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kaposi's Sarcoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABQ81854 standard; DNA; 11
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                                                                                                                                                                                                       (AMST-) AMSTERDAM SUPPORT DIAGNOSTICS
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                                                                 of treatment, by detecting the detect and monitor treatment of
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                                                                                                                                                                                                                                                                                                                                                                                                                                            sarcoma; tumour; angiogenesis; tag;
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                             38pp;
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The present invention describes a method

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                                                                        The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression. (M1) is useful for identifying genes involved in skin homeostasis; to determine skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          has a tumour cell or site of angiogenesis, or if a treatment is effective in changing angiogenesis or changing a status of a set of target cells, comprising determining if a sample of the subject has an expression product of at least one marker gene. Also described is a compound capable of altering the expression or activity of Keratin 14, TIE 1, Salioadhesin or Siglec in a cell. Peripheral blood monomuclear cell (BMC) expressed Keratin 14, TIE 1, Salioadhesin or Siglec, and kits containing them from the present invention can be used in a diagnostic method, particularly as an indicator of angiogenesis or to determine presence of a tumour cell. The method of the invention is suitable to determine within a few days if a certain treatment against Kapasi's Sarcoma is successful. Ap081851 to
    ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of skin. The present sequence is that of a human expressed sequence tag (EST) of the invention
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               Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
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Pred. No. 1.1e+02;
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RESULT 142
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Pred. No. 1.1e+02;
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Query Match Best Local (

Local Similarity

42.0%; 90.0%;

Score 8.4; DB 1; Pred. No. 1.1e+02;

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RESULT 146
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RESULT 145
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immunosuppressive; antiinflammatory; cytostatic; SAGE; neuro
psoriasis; dermatitis; skin cancer; EST; expressed sequence
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Pred. No. 1.1e+02
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                            WO200253774-A2
                                                       Homo sapiens.
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Pred. No. 1.1e+02;
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In vitro identification of skin-expressed genes, useful for de homeostasis and identifying cosmetic or pharmaceutical agents

determining

.g. skin cancer

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RESULT 149
ABV68518/c
ID ABV685
XX ABV685
XX ABV685
XX Human
DE Human
XX Human;
KW immuno
KW psoria
XX Homo g
PN W02002
XX Disclerin the ccc in the ccc g
CC Gencod ccc go as
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Best Local S
Matches 9
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                                                   The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression. (M1) is useful for identifying genes involved in skin homeostasis; to determine skin homeostasis and to test agent (A) that maintains or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
                   promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; sc
                                                                                                                                                                                           Disclosure;
                                                                                                                                                                                                                                                                                                         WPI; 2002-590638/63
                                                                                                                                                                                                                                                                                                                                                                                                                    03-JAN-2001; 2001DE-1000127
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human skin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABV68518;
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90.0%;
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Pred. No. 1.1e+02;
                                                                                                                                                                                           German.
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 lupus erythematosus;
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Query Match Best Local S Matches

Similarity 9; Conser GGCCAGGCCA GGGCAGGCCA

Conservative

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Mismatches

42.0%; 90.0%;

Score 8.4; DB 1; Pred. No. 1.1e+02;

Length 11;

Indels

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Gaps

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RESULT 150
ABV68762/c
IDV ABV687
XX ABV687
XX AV687
XX AV687
XX Human;
XX Human;
XX Human;
XX Human;
XX Homo s
XX WO2002
XX Homo s
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                                                                                                                                                                                          The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression. (M1) is useful for identifying genes involved in skin homeostasis; to determine skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis or that can be used for treating skin
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(EST)
                                                       disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma; ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag (EST) of the invention.
     Sequence 11
                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 207; 1345pp; German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  e.g. skin cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            In vitro identification of skin-expressed homeostasis and identifying cosmetic or pl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-JAN-2001; 2001DE-1000127
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skin. The present sequence
(EST) of the invention.
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9; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCGGGGCCAG 1
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  BP; 1 A; 5 C; 3
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     G; 2 T; 0 other;
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ed genes, useful for determining pharmaceutical agents against
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .1e+02;
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RESULT 152
ABV99138/c
ID ABV691
XX
AC ABV691
XX
DT 21-OCT
XX
DE Human
XX
KW Human;
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                                                                                                                                                                                                                                                                                                                        RESULT 151
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Best Local (
                                                                                                                                                                                                                                                            Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               e.g.
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Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic;
                               Human skin
                                                                                                                                                                                                                                                                                                                                                                 disorders, specifically neurodermatitis, sunburn; psoriasis; scleroderma, ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma, and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag
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                                                             21-OCT-2002
                                                                                           ABV69138;
                                                                                                                       ABV69138 standard; cDNA;
                                                                                                                                                                                                                                                                                                                        Sequence 11 BP; 3 A; 4 C; 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-JAN-2001; 2001DE-1000127.
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03-JAN-2001; 2001DE-1000127

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RESULT 153
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                                                                                                                                                                           Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
                                               20-DEC-2001; 2001WO-EP15179
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                                                                                                               WO200253774-A2
                                                                                                                                               Homo sapiens
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                                                                                                                                                                                                                                                                                                            Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
                      Disclosure; Page 229; 1345pp; German
                                                                                                    WPI; 2002-590638/63
                                                                                                                                                                               03-JAN-2001; 2001DE-1000127
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                                                           In vitro identification of skin-expressed homeostasis and identifying cosmetic or pl
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Pred. No. 1.1e+02
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                                                            pharmaceutical agents
                                                                         genes, useful for determining
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The invention relates to

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RESULT 155
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                                                           The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression (M1) is useful for identifying genes involved in skin homeostasis; to determine skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sumburn; psoriasis; scleroderma; ichthyosis; atopic dermatitis; acne; seborthea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag (EST) of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 24; Page 247; 1345pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           In vitro identification of skin-expressed genes, useful for determining homeostasis and identifying cosmetic or pharmaceutical agents against
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Petersohn D,
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ssive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
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RESULT 156
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  ABV70458 standard;
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                                                                                                                                               Human
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Pred. No. 1.1e+02
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RESULT 159
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         gene
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                                                                                                                                                                                                                                                                          Human; skin ageing; skin stress; EST; expressed sequence tag;
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                    Identifying genes involved in skin stress and ageing, useful e.g. screening for cosmetic or therapeutic agents, based on differenti
                                                                                      Petersohn D,
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           expression
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RESULT 160
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                           expression. (A) comprises protein or mRNAs or their fragments. (M1) is useful for: identifying markers of skin ageing and/or stress; determining skin ageing and/or stress; and identifying or determining the effects of pharmaceutical or cosmetic agents for control of skin ageing. The present sequence is one of a group of human skin ageing/stress related expressed sequence tags (ABQ86246-ABQ87680) of the invention.
                                                                                                              or animals, are important for skin ageing and/or skin stress by serial analysis of gene expression between mixtures of transcribed and optionally translated, genetically encoded factors (A) obtained from young and aged skin, to identify that genes that show strong differential expression. (A) comprises protein or mRNAs or their fragments. (M1) is
                                                                                                                                                                                                  The invention relates to identifying (M1) genes in vitro that,
                                                                                                                                                                                                                                   Claim 8; Page 75; 325pp; German.
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                                                                                                                                                                                                                                                                                                                                                                      Conradt M,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   42.0%;
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                                                                                                                                                                                                                                                                                                                                                                        Hofmann
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Pred. No. 1.1e+02;
0; Mismatches 1
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                                                                                                                                                                                                                                                                        on differential
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                                                                                                                                                                                                  in humans
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Sequence 11

BP; 4 A; 4 C;

2 G;

1 T; 0 other;

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ABQ87207
IID ABQ8
XX ABQ8
XX ABQ8
XX ABQ8
DT 10-9
DT Huma
XX Huma
XX WO2
PD 111-1
PF 20-1
PF WPI
PPT Ide
PT Ide
PT
RESULT 162
ABL92021
ID ABL920
XX
AC ABL920
XX
DT 30-MAY
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Best Local S
Matches 9
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to identifying (M1) genes in vitro that, in humans or animals, are important for skin ageing and/or skin stress by serial analysis of gene expression between mixtures of transcribed and optionally translated, genetically encoded factors (A) obtained from young and aged skin, to identify that genes that show strong differential expression. (A) comprises protein or mRNAs or their fragments. (M1) is useful for: identifying markers of skin ageing and/or stress; determining skin ageing and/or stress; and identifying or determining the effects of pharmaceutical or cosmetic agents for control of skin ageing. The present sequence is one of a group of human skin ageing/stress related expressed sequence tags (ABQ86246-ABQ87680) of the invention.
30-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 11 BP; 5 A;
                                                         ABL92021;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human skin
                                                                                                             ABL92021 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying genes involved in skin stress and ageing, useful e.g. in screening for cosmetic or therapeutic agents, based on differential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Petersohn D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-DEC-2001; 2001WO-EP15178
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; skin ageing; skin stress; EST; expressed sequence tag; ss.
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                                                                                                                                                                                                                                                                                                                                                              Local Similarity
les 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      expression
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                                                                                                                                                                                                                                                                                                    AGGCCAAAGT 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCAGGCCAAA 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               stress/ageing
                                                                                                                                                                                                                                                                                                                                                           Conservative
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(first
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conradt M,
                                                                                                             cDNA; 11
entry)
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                                                                                                                                                                                                                                                                                                                                                                                     42.0%;
90.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 C; 3 G; 1 T; 0
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Pred. No. 1.1e+02;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                           Score 8.4; DB 1;
Pred. No. 1.1e+02;
D; Mismatches 1
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                               proteins have cytostatic, immunostimulant and antiangiogenic activity. They are useful for inhibiting tumour growth, necangiogenesis in subjects bearing a vascularised tumour, polycystic kidney disease, diabetic retinopathy, rheumatoid arthritis and psoriasis. Human, mouse and rat TEM genes and the encoded proteins (ABL92075-ABL92141 and ABB90781-ABB90789) are disclosed, as are marker oligonucleotide sequences: tumour endothelial markers (TEM) ABL91996-ABL92041 and ABL92143-ABL92191, normal endothelial markers (NEM) ABL92042-ABL92074; and pan-endothelial markers (PEM) ABL91995. The present sequences
Human; endothelial cell; EC; tumour endothelial cell; Tumour endothelial marker; normal endothelial marker; pan-endothelial marker; polycystic kidney disease; pso diabetic retinopathy; rheumatoid arthritis; tumour ang
                                                                                                                                   ABX71946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to an isolated molecule comprising an antibody variable region which specifically binds to an extracellular domain c tumour endothelial marker (TEM) protein selected from ABB90732, ABB90 ABB90749, ABB90750 and ABB90769. The antibodies which bind to TEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     An isolated molecule comprising an antibody variable region which specifically binds to an extracellular domain of a tumor endothel marker (TEM) protein, useful for inhibiting tumor growth -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-AUG-2000; 2000US-222599P
11-AUG-2000; 2000US-224360P
11-APR-2001; 2001US-282850P
                                                                                                      12-MAR-2003
                                                                                                                                                               ABX71946 standard; DNA; 11
                                                                                                                                                                                                                                                                                                                                                       Sequence 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    psoriasis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antiangiogenic; tumour; neoangiogenesis; vascularised tumour;
polycystic kidney disease; diabetes; retinopathy; rheumatoid arthritis;
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                                                                                                                                                                                                                                                            10 AGGCCAAAGT
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                                                                                                                                                                                                                                                                                               9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               endothelial marker; pan-endothelial marker;
                                                                                                                                                                                                                                                                                                                                                                                      of an oligonucleotide marker useful
                                                                                                                                                                                                                                      AGCCCAAAGT 10
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                                                                                                   (first entry)
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                                                                       identify human gene encoding
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                                                                                                                                                                                                                                                                                                             42.0%;
90.0%;
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Pred. No. 1.1e+02;
D; Mismatches 1
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                                                                          TEM
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                                                                                                                                                                                                                                                                                                                                                                                      the invention
                                                                                                                                                                                                                                                                                                                          Length 11;
                                                                                                                                                                                                                                                                                                Indels
                psoriasis;
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                              PEM;
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                                                                                                                                                                                                                                                                                                0,
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                                                                                                                                                                                                                                                                                                Gaps
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tumour angiogenesis;

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AAA80792
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Best Local Similarity
Matches 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to a novel method for the isolation of endothelial cells (ECs), and the identification of genes expressed in normal and tumour ECs. Tumour endothelial marker (TEM), normal endothelial marker (NEM), and pan-endothelial marker (PEM) genes are identified in human ECs. The human EC marker proteins and the polynucleotide sequences encoding them are useful for detecting, diagnosing or treating tumours as well as polycystic kidney disease, diabetic retinopathy, rheumatoid arthritis, and psoriasis. They are also useful for inhibiting neoangiogenesis or tumour angiogenesis, for inducing an immune response to tumour endothelial cells in a patient, or for identifying candidate drugs for treating tumours. ABX71828-ABX71999 represent DNA tags for human PEM, TEM or NEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New purified human transmembrane protein, designated as tumour endothelial marker (TEM) 3, useful for detecting, diagnosing or treating tumours, polycystic kidney disease, diabetic retinopathy,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI;
                                                                                                                                                                   A. thaliana primer walking octamer SEQ ID NO: 105.
                                                                                                                                                                                                  24-NOV-2000
                                                                                                                                                                                                                                                         AAA80792 standard; DNA; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 11 BP; 4 A; 3 C; 3 G; 1 T; 0 other;
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06-FEB-2002; 2002US-354262P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       neoangiogenesis; immune response; cytostatic; antidiabetic;
ophthalmological; antirheumatic; antiarthritic; antipsoriatic;
 15-APR-1996;
                          21-MAY-1997;
                                                                                    US6083695-A
                                                                                                             Arabidopsis thaliana
                                                                                                                                        Primer walking;
                                                                                                                                                                                                                             AAA80792;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 104; 374pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rheumatoid arthritis or psoriasis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Carson-Walter E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-APR-2002; 2002WO-US08253
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                                                                                                                                                                                                  (first entry)
96US-0632782
                          97US-0859954.
                                                                                                                                          octamer; primer;
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                                                                                                                                                                                                                                                                                                                                                                                                   42.0%;
90.0%;
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Pred. No. 1.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                          DNA sequencing; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Vogelstein B;
                                                                                                                                                                                                                                                                                                                                                                                                               Length 11;
                                                                                                                                                                                                                                                                                                                                                                                      Indels
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                                                                                                                                                                      This invention describes a novel method for sequencing an unknown DNA molecule which comprises selecting a library primer from an octamer oligonucleotide library consisting of 48 8-bp sequences and corresponding complementary sequences, where the library primer is complementary to a known sequence adjacent to the unknown sequence or is complementary to a sequence in a known extension product. The method is useful for DNA nucleotide sequencing, in PCR, and in other processes which make use of primers. The octamers are used to identify coding sequences. Primer walking using the octamer libraries is advantageous over other sequencing methods because it does not require multiple cloning steps nor subsequent template preparations, and it is a directed and methodical approach. AAA80688-A81253 represent the octamer primers used in the primer walking method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequencing an unknown DNA molecule for the polymerase chain reaction and other primer processes comprises primer walking of octamer oligonucleotides
                                                                                                                                          Sequence 8 BP; 3 A; 2 C; 2 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 8; Column 77-78; 161pp; English
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 GCCAAAGT
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Pred. No.
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o. 5.8e+02;
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RESULT 165
AAV63091/c
ID AAV630
XX AAV630
XX AAV630
XX TCf; b
KW Cancer
XX Homo s
PN WO9841
XX WO9841
XX UTJO
PF 20-MAR
XX UTJO
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XX UTJO
XX UTJO
XX INtror
PT identi
PT identi Barker N, Sparks AB, 20-MAR-1997; 20-MAR-1998; 24-SEP-1998 Homo sapiens Tcf; beta-catenin; human; drug; familial adenomatous polyposis; FAP; cancer; adenomatous polyposis coli; APC; neoplastic; ss. Human Tcf mutant DNA motif 25-JAN-1999 AAV63091; AAV63091 standard; cDNA; WPI; 1998-531569/45. WO9841631-A2 (UYUT-) RIJKSUNIV UTRECHT. (UYJO) UNIV JOHNS HOPKINS. Clevers H, Vogelstein (first entry) 97US-0821355 98WO-US05506 Kinzler 1 B; ø ВP ₹. Korinek < Morin

Intron-free DNA encoding Tcf-4 protein - useful identifying drugs for treating FAP patients, or increased risk of developing cancer

for, e.g.

with

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RESULT 166
AAX99683/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CC in the isolation of novel Tcf proteins. These proteins can be used, along CC with beta-catenin in a method of identifying candidate drugs for use CC in familial adenomatous polyposis (FAP) patients, or patients with CC increased risk of developing cancer. The protein can also be used to CC determine the presence or absence in a cell of wild type adenomatous polyposis coli (APC) gene or a downstream protein in the APC CC transcription regulatory patienty. This method involves introducing a CC Tcf-responsive reporter gene into the cell, and measuring transcription of the reporter gene where a cell which supports active transcription of the APC transcription regulatory pathway. The protein can also be used CC no method of diagnosing cancer in a sample suspected of being CC nocel associated with FAP, comprising administering to the patient a CC polypeptide comprising a portion of the APC sequence, comprising the Detar catenin binding site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Best Local
The invention relates to mammalian transcription factors Tcf-3 or Tcf-4 protein or their derivatives. The Tcf proteins of the invention comprise a beta-catenin binding domain and are capable of complexing with beta-catenin in response to signaling through the Wnt/Wingless cascade. The Tcf-3 and Tcf-4 genes, proteins and antibodies against the proteins may be used to screen for candidate anticancer drugs by identifying compounds which interact with beta-catenin/Tcf-3 or beta-catenin/Tcf-4 complexes
                                                                                                                                                Disclosure; Page 4;
                                                                                                                                                                                                                                                                                                                                                                                      01-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            myeloblastoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              binding
                                                                                                                                                                                                                                                                                                             27-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                  27-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                       EP939122-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               transactivation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mammalian;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tcf optimal response element mutated sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAX99683 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         an; transcription factor; Tcf-3; Tcf-4; beta-catenin; mouse;
domain; Wnt signalling; Wnt/Wingless cascade; anticancer drug;
tivation; fetal cancer; testis cancer; ovary teratoma; mammary;
                                                                                                                                                                                 se transcription factors, useful for diagnosing and and screening for anticancer drugs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         medulloblastoma; intestinal cancer; response element; ss
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                                                                                                                                              56pp;
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RESULT 167
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                                                                                                            The present invention describes a zinc finger protein (I) that binds to CC a target site, comprising a first (FI), a second (F2), and a third (F3) cC zinc finger, ordered FI, F2, F3 from N-terminus to C-terminus, where the carget site comprises, in 3'.5' direction, a first (S1), a second (S2), and a third (S3) target subsite. Also described are: (1) a polypeptide (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and (3) designing (M) (I) involves selecting the F1 zinc finger such that it binds to the S1 target subsite, selecting the F2 zinc finger such that it binds to the S2 target subsite, and selecting the F3 zinc finger such that it binds to a target subsite, and selecting the F3 zinc that binds to a target subsite, and selecting the F3 zinc finger such that it binds to the S3 target subsite, thus designing (I) that binds to a target site. (I) is useful for recognition of triplet carget subsites and plant engineering. (II) or (III) is useful in the subsite. (I) is useful in studying gene function, and for human therefore the expression of target region within the second of the subsite is subsite to the same of the subsite is subsite to the same of the subsite in the same of the subsite in the same of the subsite in the same of the subsite is subsite in the same of the subsite in the subsite subsite region within the subsite is subsite in the subsite region within the subsite is subsite subsite region within the subsite is subsite subsite region within the subsite subsite region within subsite subsite subsite subsite region within subsite subsite subsite subsite subsite region within subsite subs
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Best Local
a subject, in diagnostic methods for sequence specific detection of target nucleic acid in a sample, and in assays to determined the phenotype and function of gene expression. (I) has improved affinit,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and alter their transactivation activity. Compounds which interact with the Tcf-3 and Tcf-4 proteins and interfere with their transcriptional activation, identified using these screens, may be used to treat fetal cancer, cancers with stem cell phenotypes, testis or ovary teratomas, myeloblastomas, medulloblastomas, mammary or intestinal cancers. The present sequence represents a mutated Tcf optimal response element motif sequence. Mutation of the element abrogates responsiveness.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New zinc finger protein that binds to target site, useful in studying gene function and for human therapeutics and plant engineering, comprises first, second and third zinc fingers, ordered from N- to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Liu Q;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-NOV-2001; 2001WO-US43438
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RESULT 168
ABQ72078/c
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ABQ72078;
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ABQ7207201;
ABQ7207200;
ABQ7207200;
ABQ720022.
ABQ720022.
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ABQ7201;
ABQ720022.
ABQ7201;
AB
                   The present invention describes a zinc finger protein (I) that binds to CC a target site, comprising a first (FI), a second (F2), and a third (F3) CC zinc finger, ordered FI, F2, F3 from N-terminus to C-terminus, where the CC target site comprises, in 3-5' direction, a first (SI), a second (S2), CC and a third (S3) target subsite. Also described are: (I) a polypeptide (II) comprising (I); (2) a polyprucleotide (III) encoding (I) or (II); and CC (II) comprising (I); (2) a polyprucleotide (III) encoding (I) or (II); and CC (I) designing (M).(I) involves selecting the F1 zinc finger such that CC it binds to the S1 target subsite, selecting the F2 zinc finger such that it binds to the S2 target subsite, and selecting the F3 zinc (CC that binds to the S2 target subsite, and selecting the F3 zinc (CC that binds to the S1 target subsite, thus designing (I) CC that binds to a target site. (I) is useful for recognition of triplet (CC target subsites having the nucleotide G in the 5'-most position of the CC subsite. (I) is useful in studying gene function, and for human (CC therapeutic methods to modulate the expression of a target region within CC a subject, in diagnostic methods for sequence specific detection of CC a subject, in diagnostic methods for sequence specific detection of CC and specificity for their target sequences, as well as enhanced CC behological activity. ABO71213 to ABO7214 and ABP48191 to ABP51230 CC represent DNA target sequences and zinc finger partides which are given
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 61; 81pp; English
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Pred. No.
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o. 5.2e+02;
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                                                    The present invention describes a zinc finger protein (I) that binds to CC a target site, comprising a first (F1), a second (F2), and a third (F3) CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the CC target site comprises, in 3'-5' direction, a first (S1), a second (S2), and a third (S3) target subsite. Also described are: (1) a polypeptide (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and (C3) designing (M) (I) involves selecting the F1 zinc finger such that it binds to the S1 target subsite, selecting the F2 zinc finger such that it binds to the S2 target subsite, and selecting the F3 zinc (C3) designing (I) the F3 target subsite, and selecting the F3 zinc (C4) that it binds to the S3 target subsite, thus designing (I) that binds to a target site. (I) is useful for recognition of triplet (C5 target subsites having the nucleotide (G7 in the S-most position of the S1 target subsite. (I) is useful in studying gene function, and for human (C5 therapeutics and plant engineering. (I), (II) or (III) is useful in the C5 therapeutic methods to modulate the expression of a target region within (C6 target nucleic acid in a sample, and in assays to determined the phenotype and function of gene expression. (I) has improved affinity (C5 and specificity for their target sequences, as well as enhanced (C6 the the companies) and zinc finger peptides which are given (C6 the theorem of the procession of the proces
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Best Local
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Sequence 9 BP; 0 A; 3 C;

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Best Local
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                                                                                                                                                                                                                                                                                                    The present invention describes a group of genes consisting of 100 genes which are highly expressed in human dendritic cells; a group of genes which are expressed at a higher frequency in human dendritic cells than in human monocytes; and a group of genes which are expressed at lower frequency in human dendritic cells than in human monocytes. Each group of genes are characterised in that cDNAs of these genes respectively have the base sequences of SEQ ID NO:1 to 100 (AAC74013), SEQ ID NO:101 to 200 (AAC74014 to AAC74113) and SEQ ID NO:201 to 300 (AAC74114 to AAC74213), each is continuous with the base sequence 5°-CATG-3' located most closely to the poly-A region. The sequences can be conditionally and seque
                                                                                                                                                                                                                                      be used for the investigation of the role and mechanism of the involvement of dendritic cells in the immune system and for the study and diagnosis of diseases in which dendritic cells play a significant role,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Groups of genes expressed in human dendritic cells at a greater or lesser extent than in monocytes for investigation and diagnosis of
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                                                                                                                                                                            Sequence
                                                                                                                                                                                                                   e.g. cancers and autoimmune diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; Page 9; 95pp; Japanese.
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100.0%; Pr
                                                                                 100.0%; F
                                                                                                                                                                            3 C; 4 G;
                                                                                                                               40.0%;
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                                                                                                        Score 8;
Pred. No.
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                                                                                                                                                                            2 T; 0
                                                                                   Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            immune system; diagnosis; cancer;
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                                                                          DB 1; L; NO. 1.1e+02; 0;
                                                                                                                                                                            other;
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ches 0; Indel
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RESULT 171 ABA06204

(UYJO ) UNIV JOHNS HOPKINS

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                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a human normal hepatocyte expression gene group comprising 200 genes in the human normal hepatocyte. The cDNA of each gene comprises one of 200 fully defined nucleotide sequences as given in the specification. The gene group and the cDNAs corresponding to each of the genes in the group are useful in the diagnosis and treatment of human hepatopathy. The present sequence is a cDNA corresponding to a gene expressed by normal human
                                 24-NOV-1999;
                                                       21-NOV-2000;
                                                                                31-MAY-2001
                                                                                                                           Homo sapiens
                                                                                                                                                 Human; transcriptome; gene expression pattern; cancer; drug screening; cancer diagnosis; cell specific gene expression; ss.
                                                                                                                                                                                    Human ubiquitously expressed transcriptome sequence SEQ ID NO: 1228.
                                                                                                                                                                                                           20-SEP-2001
                                                                                                                                                                                                                                   AAH64388
                                                                                                                                                                                                                                                        AAH64388 standard;
                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 10 BP; 1 A; 3 C; 4 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1; Page 9; 26pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human normal hepatocyte expression gene group
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8; Conserv
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                                                         2000WO-US31922
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                                 99US-0448480
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Pred. No.
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No. 1.1e+02;
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AAH64389
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce cancer specific gene expression, standardise expression and restore the function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.
                                        The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences
AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce
                                                                                                                                                    New isolated polynucleotides, useful type, such as cancer cell, comprises particular cell types -
cancer specific gene expression, standardise expression and restore the function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; transcriptome; cancer diagnosis; cell
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particular cell types -
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                                                                                                                           Claim 13; Page 67; 94pp; English.
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                                                                                                                                                                                                                                                                                                 24-NOV-1999;
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8; Conserv
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100.0%; Pr
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l specific gene expression
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 es, useful for identifying specific comprises transcriptomes expressed
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0; Mismatches
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                                                                                                                                                                                                                                          Kinzler
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                                                                                                                                                                    for identifying specific transcriptomes expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                       expression;
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 AAH64391
ID AAH
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AAH64391 AAH64391;

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RESULT 174
AAH64390
ID AAH643
XX AAH643
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Best Local :
                                                                                                                                                                                                                                   The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce cancer specific gene expression, standardise expression and restore the function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human;
                                                                                                                                                                                          Sequence 10 BP; 1 A; 3 C; 4 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 13; Page 67; 94pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New isolated polynucleotides, useful type, such as cancer cell, comprises
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-NOV-1999;
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8; Conserv
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ilarity 100.0%;
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                                                                                                                   Score 8;
Pred. No.
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                                                                                                                   DB 1; Le:
o. 1.1e+02;
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20-SEP-2001

(first entry)

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RESULT 176
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Best Local 9
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                   24-NOV-1999;
                                        21-NOV-2000; 2000WO-US31922
                                                                                   WO200138577-A2
                                                                                                                               cancer
                                                                                                                                        Human;
                                                                                                                                                            Human ubiquitously expressed transcriptome sequence SEQ ID NO:
                                                                                                                                                                                    20-SEP-2001
                                                                                                                                                                                                                             AAH64392 standard; cDNA;
                                                                                                                                                                                                                                                                                                                                                                      Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                        cancer specific gene expression, standardise expression and restore the function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             particular cell types
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated polynucleotides, useful type, such as cancer cell, comprises
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2001-367706/38.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cancer
                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Velculescu VE,
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(UYJO ) UNIV JOHNS HOPKINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (UYJO)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13; Page 67; 94pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ubiquitously
                                                                                                                             diagnosis;
                                                                                                                                         transcriptome;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                diagnosis; cell specific gene expression; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          transcriptome;
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                                                                                                                                                                                                                                                                                                                           Similarity
8; Conserv
                                                                                                                                                                                                                                                                                   GGCCAGGC 10
                                                                                                                                                                                                                                                                                                     GGCCAGGC 13
                                                                                                                                                                                                                                                                                                                                                                     BP; 1 A;
                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                  (first entry)
                    99US-0448480
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                                                                                                                               cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                expressed
                                                                                                                                                                                                                                                                                                                                                                     3 C; 4 G;
                                                                                                                                                                                                                                                                                                                                     100.0%;
                                                                                                                                                                                                                                                                                                                                                 40.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gene expression pattern; cancer;
                                                                                                                                        gene expression
                                                                                                                              specific
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               transcriptome sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                     2 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kinzler KW;
                                                                                                                             gene
                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                       DB 1; 4.
No. 1.1e+02;
0;
                                                                                                                             pattern; c
expression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for identifying specific transcriptomes expressed
                                                                                                                                                                                                                                                                                                                                                                      other;
                                                                                                                                                                                                                                                                                                                                              Length 10;
                                                                                                                                       cancer;
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                                                                                                                                      drug
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                                                                                                                                       screening;
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce cancer specific gene expression, standardise expression and restore the function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.
         The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce cancer specific gene expression, standardise expression and restore the
                                                                                                                                                                                                                                                                                                                                                                                                       Human;
cancer
                                                                                                                                                                                       WPI;
                                                                                                        Claim 13;
                                                                                                                                  type, such as cancer cell, particular cell types -
                                                                                                                                                             New isolated polynucleotides, useful
                                                                                                                                                                                                                  Velculescu VE,
                                                                                                                                                                                                                                                                       24-NOV-1999;
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                                                                                                                                                                                                                                                                                                                          31-MAY-2001
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                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                              Human ubiquitously expressed
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAH64393;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAH64393 standard; cDNA; 10 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               type, such as cancer of particular cell types
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated polynucleotides, type, such as cancer cell, cor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Velculescu VE,
                                                                                                                                                                                                                                            (UYJO ) UNIV JOHNS HOPKINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local
                                                                                                                                                                                       2001-367706/38.
                                                                                                                                                                                                                                                                                                                                                                                                       transcriptome; gene expression pattern; cancer; diagnosis; cell specific gene expression; ss.
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8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGCCAGGC 13
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                                                                                                        67; 94pp; English.
                                                                                                                                                                                                                                                                       99US-0448480
                                                                                                                                                                                                                Vogelstein
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                                                                                                                                                comprises
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                              transcriptome sequence SEQ ID NO: 1233.
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                                                                                                                                               transcriptomes
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                                                                                                                                                             for identifying specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       other;
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in
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in
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**Eunction** 

of a diseased

cell or tissue.

The present

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RESULT 179
ABV84947
ID ABV849
XX
AC ABV849
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AAH64394
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                                                                                                                              Query Match
Best Local Similarity
Matches 8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                              The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce cancer specific gene expression, standardise expression and restore the function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.
  ABV84947;
                         ABV84947 standard; cDNA; 10
                                                                                                                                                                             Sequence 10
                                                                                                                                                                                                                                                                                                                                type, such
particular
                                                                                                                                                                                                                                                                                                                                           New isolated polynucleotides, useful type, such as cancer cell, comprises
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; transcriptome; gene expression pattern; cancer; drug screening; cancer diagnosis; cell specific gene expression; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 10 BP; 1 A;
                                                                                                                                                                                                                                                                                                        Claim 13; Page 67; 94pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                      Velculescu VE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                   24-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21-NOV-2000; 2000WO-US31922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-MAY-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human ubiquitously expressed transcriptome sequence SEQ ID NO: 1234.
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                                                                                                      GGCCAGGC 13
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                                                                                                                                                                                                                                                                                                                                  cell
                                                                                                                                Conservative
                                                                                                                                                                            BP; 1 A; 3 C; 4 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                   99US-0448480
                                                                                                                                                                                                                                                                                                                                                                                                      Vogelstein B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 C; 4 G; 2 T; 0 other;
                                                                                                                                           100.0%;
                                                                                                                                                      40.0%;
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                         ВP
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                                                                                                                                         Score 8; 1
Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                       Kinzler KW;
                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                           for identifying specific cell transcriptomes expressed in
                                                                                                                                         DB 1; Le
o. 1.1e+02;
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                                                                                                                                                   Length 10;
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                                                                                                                              Indels
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ABV78373
ID ABV7
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AC ABV7
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DT 29-h
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DE Hume
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XX
EM SAGH
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RESULT 180
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                  SAGE tag; serial analysis of gene expression; human; Th2 cell activated T cell; T lymphocyte; immune response; expression p
                                                                                                Human Th2
                                                                                                                                               29-NOV-2002
                                                                                                                                                                                              ABV78373;
                                                                                                                                                                                                                                                   ABV78373 standard; cDNA; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human chronic hepatitis C tissue expression exasperating gene group comprises 100\ \mathrm{high}\text{-ranking} genes -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2002-631294/68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19-JAN-2001; 2001JP-0012328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-JAN-2001; 2001JP-0012328
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           expression pattern;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human multiple HCC highly expressed genes SAGE tag #757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-DEC-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local
disorder;
                                                                                                                                                                                                                                                                                                                                                                             ω
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                          GGCCAGGC 13
                                                                                                                                                                                                                                                                                                                                                                           GGCCAGGC 10
                                                                                              cell SAGE tag, SEQ ID NO:84.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 in hepatocellular carcinoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP; 1 A; 3 C; 4 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                               (first
                                                                                                                                               entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            40.0%; Score 8; DB:
100.0%; Pred. No. 1.:
cive 0; Mismatches
                                                                                                                                                                                                                                                   ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ) DB 1; L. No. 1.1e+02; 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                  pattern;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to SAGE (serial analysis of gene expression) tags representing groups of genes which are expressed in activated human Thi and/or Th2 cells. The SAGE tags of this invention consist of a sequence of 10 nucleotides located downstream of the 5'.CATG-3' sequence motif lying nearest to the polyA region of cDNAs derived from a variety of genes. These tags serve to uniquely identify each transcript and can thus be used to analyse the pattern of gene expression in particular cell types. The invention also relates to proteins encoded by the genes expressed in Th1 and/or Th2 cells, antibodies against these proteins, and inhibitors of the expression of groups of genes that are expressed in either or both the two cell types. Groups of genes expressed in Th1 and/or Th2 cell types and be used for the diagnosis and treatment of Th1 and Th2-related disorders. Sequences ABV78340-ABV78389 are SAGE tags crepresenting 50 genes which are most highly expressed in Th2 cells.
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Matches 8
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   Human maturation/activation dendritic cell expression gene group
                                                                WPI; 2002-127070/17
                                                                                                                                                                                                                                           22-MAY-2000; 2000JP-0150562
                                                                                                                                                                                                                                                                                                     27-NOV-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             maturation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; maturation/activation dendritic cell expression gene; tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human maturation/activation dendritic cell expression gene tag
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                                                                                                                       (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
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8; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             activation; dendritic
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100.0%; Pr
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RESULT 182
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26-MAY-1994
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                                                                                                                                                                                                                                                                                                                                                                                                         mdr-1 mRNA ribozyme cleavable nucleotide NT585.
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Multiple drug resistance; mdr-1; ribozyme; membrane protein; liver; resistance; chemotherapeutic agent; colchicine; doxorubicin; colon; actinomycin D; vinblastine; small intestine; kidney; adrenal gland; adenocarcinoma; bowel; transformed phenotype; promyelocytic leukemia; human; chronic myelogenous leukemia; CML; follicular lymphoma; human; chronic myelogenous leukemia; CML; follicular B-cell acute lymphocytic leukemia; breast cancer; co neuroblastoma; lung cancer; genetic drift; mutation; 25-NOV-1993 WO9323057-A1 Homo sapiens colon carcinoma;

26-AUG-1992; 26-AUG-1992; 26-AUG-1992; 26-AUG-1992; 14-MAY-1992; 14-MAY-1992; 26-AUG-1992; 07-DEC-1992 19-JAN-1993 13-MAY-1993; (RIBO-) ଜି RIBOZYME PHARM INC Thompson 92US-0936421. 92US-0936422. 92US-0936531. 92US-0936532. 92US-0882822. 92US-0882885. 92US-0936110. 93US-0008910 92US-0987131 93US-0006122 93WO-US04573

New enzymatic RNA molecules (ribozymes) - associated with tumours or mRNA expressed multiple drug which cleave from gene enc

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RESULT 183
AAQ96792
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                                                                                                                                                                                                          23-DEC-1994;
14-FEB-1994;
21-FEB-1994;
                                     New non-pathogenic HIV-1 strain carrying a deletion in its nef or LTR region - can be used in a vaccine to inhibit/reduce productive infection in an individual by a pathogenic strain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ribozymes remove the mechanism of drug resistance used by transformed cells and thus enhances drug therapies for tumours. The ribozymes may also be used to study genetic drift and mutations within cells. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 drug resistance (mdr-1) mRNA which are accessible to the ribozyme of the invention. The mdr-1 gene encodes a 170 kD integral membrane protein which confers resistance to certain chemotherapeutic agents, such as colchicine, doxorubicin, actinomycin D and viiblastine. The
                                                                                                                                                              (AURE-)
                                                                                                                                                                                                                                                                                                   17-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                         HIV-1; AIDS;
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          Claim 13; Page 193; 301pp; English
                                                                                                                                                                                                                                                                     14-FEB-1995;
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94AU-0003864.
94AU-0004002.
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21-FEB-1994;
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                                                                                                                                                                                                                                    Attenuation of pathogenic HIV-1 strain NL4-3 involves deletion of 1 or more decanucleotides (AAQ96406-Q97018) from the nef gene and/or 1 or more decanucleotides (AAQ97019-Q97166) from the LTR region; the sequence of AAQ96406 corresponds to nucleotides 1-10 of the nef gene (AAQ99141). The resulting avirulent HIV strains are still capable of inducing an immune response in humans, and enable the generation of therapeutic, diagnostic and targeting agents against HIV-1 infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New non-pathogenic HIV-1 strain carrying a deletion in its nef gene or LTR region - can be used in a vaccine to inhibit/reduce productive infection in an individual by a pathogenic strain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI;
                                                                                                                                                                                              Sequence 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cooper D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (AURE-)
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8; Conserva
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MACFARLANE
                                                                                                                        Similarity
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                                              GGGCCAGG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGGCCAGG 12
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Crowe S,
                                                                                                                                                                                              BP; 1 A; 2 C; 7 G; 0 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 2
                                                                                               Conservative
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94AU-0003864.
94AU-0004002.
                                                                                                                                                                                                                                                                                                                                                                                                                                          193; 301pp; English.
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BURNET CENT MEDICAL.
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                                                                                                                                                40.0%;
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0; Mismatches
                                                                                                                      Score 8;
Pred. No.
                                                                                               Mismatches
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                                                                                                                      DB 1; Le
b. 1.1e+02;
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5. 1.1e+02;
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                                                                                                                                             Length 10;
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                                                                                               Gaps
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RESULT 186
AAX54584/C
ID AAX54584 standard; DNA; 10 BP
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AAQ88580/c
                                                                                                                            Query Match
Best Local S
Matches 8
                                                                                                                                                                                                        A DNA chip was prepared for analysing sequences contained in a 1.3kb fragment of human mitochondrial DNA from the D-loop region, the most polymorphic region of human mitochondrial DNA. The chip comprised a set of 268 overlapping oligonucleotide probes (see AQ88421-Q88684) of varying length (9-14 nucleotides) with varying overlaps arranged in a 1cm x 1cm array. Each position in the sequence was represented by at least one probe (usually 2 or more). DNA was amplified from six human donors and then transcribed to give the 1.3kb RNA transcripts which were fragmented and hybridised to the chip. For each individual, a unique hybridisation fingerprint was produced on the chip; all differences could be correlated with differences in the cloned genomic DNA sequence.
                                                                                                                                                                                Sequence 10 BP; 1 A; 4 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tiling strategy; immobilised nucleic acid probe array; mitochondrial DNA; D-loop region; biological chip; hybridisation fingerprint; interrogation position; ss.
                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 108; 223pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                               New arrays of oligo:nucleotide probes - used for comparing known sequences with variants for detection of mutation(s) and sequencing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-AUG-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-OCT-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     04-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human mitochondrial D-loop region DNA probe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAQ88580 standard; DNA; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1995-178887/23.
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                                                                                                                            Similarity
8; Conserv
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Sheldon EL;
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                                                                                                                             Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 94US-0284064.
93US-0143312.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note= "3'-end of probe is covalently attached
to chip surface"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
                                                                                                                                        100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fodor SPA,
                                                                                                                      J.08;
0;
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Lobban PE, Miyada CG,
                                                                                                                          Score 8; DB 1; Pred. No. 1.1
0; Mismatches
                                                                                                                                                                                G; 0 U; 0
                                                                                                                                       DB 1; Ler
5. 1.1e+02;
                                                                                                                                                                                 other;
                                                                                                                                                    Length 10;
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G, Morris MS;
                                                                                                                            Indels
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                                                                                                                          Gaps
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                                                                                                                                                       The specification describes antisense oligonucleotides (AAX52869-X55271) CC directed against at least 2 mRNAs selected from target genes, coding and conno-coding regions of RNAs corresponding to target genes, gene cc initiation codons, genomic flanking regions, intron-exon borders, the cc 5'-end, the 3'-end and the juxta-section between coding and non-coding cregions and all segments of RNAs encoding proteins associated with one cregions and all segments of RNAs encoding proteins associated with one cm which is a condition or mixtures. The antisense oligonucleotides conjugated from sequences AAX55272-74. These multiple target conjugated from sequences AAX55272-74. These multiple target conjugated is seases and conditions. Typical diseases and conditions are those associated with impaired respiration and conditions are those associated with impaired respiration and conditions are those associated with impaired respiration, and the sease syndrome, pain, cystic fibrosis, cut an inflammation, allergic rhinitis, acute asthma, allergies, asthma, impeded crespiration, respiratory distares syndrome, pain, cystic fibrosis, constructive pulmonary disease (COPD), and cancers such as leukemias, constructive pulmonary disease (COPD), and cancers such as leukemias, concernatic cancer, hepatocellular carcinoma, kidney cancer, melanoma, choosis concers, as well as all types of cancers which may metastasize con have metastasized to the lungs, including breast and prostate cancer.
                                                                          Best Loc
Matches
                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       acute asthma; allergy; asthma; impeded respiration; respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary assoconstruit; emphysema; chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma; colon cancer; breast cancer; lung cancer; pancreatic cancer; hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
                                                                                                                                                     Sequence 10 BP; 0 A; 2 C; 6 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Antisense oligonucleotide; multiple target; antisense treatment; impaired respiration; inflammation; lung disease; pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 45; 120pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                vasoconstriction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New antisense oligonucleotides used in treatment of, e.g. pulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1999-229400/19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-JUN-1998;
17-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         prostate cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human beta tryptase antisense oligonucleotide fragment
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                                                                                               Local
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                                                                        Similarity
8; Conserv
                                      CCAGGCCA 15
                                                                          Conservative
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97US-0059160
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                                                                                             100.0%;
                                                                                                                 40.0%;
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                                                                                               Score 8;
Pred. No.
                                                                        Mismatches
                                                                                               DB 1; Le
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                                                                                                               Length 10;
                                                                          Indels
                                                                          0;
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RESULT 187

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AAX18625/c

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RESULT 188
AAF20153/c
ID AAF201
XX
AC AAF201
XX
AC AAF201
XX
AT 14-MAR
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                                                                                                                                                                                                                                                                                                  A method has been developed for the diagnosis of cancer in potentially complastic samples. The method comprises comparing the level of transcription between RNA transcripts in two tissue samples (which are of the same type), where the first sample is potentially neoplastic, and categorized as meoplastic if its level of transcription is lower than that of the second sample if he transcript is selected from Alu, RAS, CC U6 snRNA, 16S RNA, EGR-1, ribosomal protein S27, ETS-1, 28S RNA, CGR11, CC and LIMK-2, and it is identified by a tag selected from ribosomal protein L13a, alpha-tubulin (T1) and (T2), thymosin beta-4, and gamma-actin. The present sequence represents a serial analysis of gene expression (SACE) tag from the present invention. The use of SAGE tags provides an extensive profile of gene expression in rat embryo compression gene. The discovery of new SAGE tags, which are regulated by p53, enables the diagnosis of genes that are related to cell cycle control and rumouriezenesis.
                                                                                                                                                                                                  Query Match
Best Local S
Matches 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Diagnosis of cancer in potentially neoplastic samples - by comparing the level of transcription between RNA transcripts in two tissue samples, useful for providing an extensive profile of gene expression in rat embryo fibroblast (REF) cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   p53; serial analysis of gene expression; SAGE tag; cancer; neoplastic; rat embryo fibroblast; REF; tumour suppressor; cell cycle control; tumourigenesis; diagnosis; ss.
 14-MAR-2001
                              AAF20153;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Beaudry GA,
                                                            AAF20153 standard; DNA; 10
                                                                                                                                                                                                                                                              Sequence 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             p53 serial analysis of gene expression tag
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••
                                                                                                                                                                                                                  Similarity
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                                                                                                                                        GCCAGGCC 1
                                                                                                                                                                     GCCAGGCC 14
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                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                              BP; 1 A;
 (first entry)
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                                                                                                                                                                                                                                                              3 C; 4 G;
                                                                                                                                                                                                                                40.0%;
                                                                                                                                                                                                  %; Score 8; DB 1
%; Pred. No. 1.1
0; Mismatches
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                                                                                                                                                                                                                                                              2 T;
                                                                                                                                                                                                                                                              0 other;
                                                                                                                                                                                                                DB 1; Le
o. 1.1e+02;
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                                                                                                                                                                                                                             Length 10;
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Best Local Matches Query Match

Similarity 8; Conserv

Conservative

0

Mismatches

Indels

0

Gaps

0

40.0%; Score 8; DB 1; Le 100.0%; Pred. No. 1.1e+02;

Length 10;

Sequence

10 BP; 0

A; 2 C; 6

G; 2 T; 0

other;

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surfactant depletion; respiratory; bronchodilator; antiammation; surfactant depletion; respiratory; bronchodilator; antianflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction.
                                                                                                                                                                                                                                                                                                                                                       immunoglobuling and antibodies, antibody receptors, cytokines and chemokines, endogenously produced specific and non-specific enzymes, binding proteins, adhesion molecules and their receptors, cytokine and chemokine receptors, adenosine receptors, bradykinin receptors, central nervous system (CNS) and peripheral nervous and non-nervous system receptors, CNS and peripheral nervous and non-nervous system peptide transmitters, defensins, growth factors, vasoactive peptides and receptors, binding proteins and malignancy associated proteins. The antisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or surfactant hypoproduction which are associated with a disease or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. The antisense oligonuclectides and (1) can be used to down-regulate the expression and or activity of target polypeptides associated with lung/respiratory disorders and malignancies, such as stimulating and activating peptide factors and transmitters, transcription factors, amountains and transmitters.
                                                                                            condition selected from pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), pulmonary transplantation rejection, pulmonary infections, bronchitis, and/or cancer. AAF18434 to AAF21543 represent human polynucleotide fragments and antisense oligonucleotides used in the exemplification of the companion of the complete of the companion of the complete of the companion o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 14; Page 141; 1592pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-679539/66
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection; chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human beta tryptase polynucleotide fragment #1720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24-MAR-2000; 2000WO-US08020
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                                                                                                            the exemplification of
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RESULT 189
AAA56555/c
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                                                                                                                                                        The present invention describes 100 human genes, which are expressed most frequently in human monocytes. The cDNA of each gene has a consequence fully defined in the specification, and lacking the CATG sequence located adjacent to polyA region. Also described are:

(1) an antibody specifically for the protein encoded by any of the genes; (2) oligonucleotides obtained from the CDNA sequences;

(3) 380 human genes which are expressed most frequently in human macrophages, differentiated from human monocytes by granulocyte-macrophage colony-stimulating factor, the cDNA of each gene has a fully defined sequence, given in the specification, lacking the base sequence CATG located most closely to the poly A region;

(4) an antibody specifically for the protein encoded by any of the genes of (3); and (5) oligonucleotides obtained from the cDNA sequences of (3). The genes and cDNAs, are used for the study of gene specificity and disease onset mechanism e.g. oncogenesis, genetic diseases, drug development and diagnosis. AAA56107 to AAA56586 represent specifically claimed oligonucleotide tag sequences for human genes expressed in monocytes and macrophages.
                                                              Query Match
Best Local S
Matches 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Genes most frequently expressed in human monocytes and GM-macrophages and M-macrophages studied and with cDNAs characterized, for study of gene specificity, disease onset mechanism, drug development and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       granulocyte-macrophage colony-stimulating factor; characterisation; GM-CSF; identification; diagnosis; gene specificity; oncogenesis; disease onset mechanism; genetic disease; drug development; ss.
                                                                                                                              Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hashimoto S,
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                                                                              Local Similarity
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                             CAGGCCAA 16
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                                                                Conservative
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                                                                                                                              A; 2 C; 3
                                                                                                 40.0%;
                                                       0;
                                                            Score 8; DB 1; Pred. No. 1.1
0; Mismatches
                                                                                                                              G; 4 T; 0
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                                                                                                                                other;
                                                                              DB 1; Le
). 1.1e+02;
                                                                                            Length 10;
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RESULT 190
AAA34031/c
The present invention describes a new composition comprising an antisense oligonucleotide (ON) with low adenosine (up to 15%), which CC targets nucleic acids involved in bronchoconstriction, allergies, and/or inflammation. The ON can have antiinflammatory, antiallergic, and cantiasthmatic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, for impaired airways, including lung disease and diseases whose secondary effects affilet the lungs of a subject. They can be used for treating c.g. ischaemic conditions, pulmonary vasoconstriction, allergies, cystic fibrosis, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukaemias, lymphomas, cystic the ONs reduces side effects. The A-containing ONs break down with the creases of decyadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAA32311 to AAA33312 represent the
                                                       nucleotide sequences given in the sequence listing from the present invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185 sequences are also called SEQ ID NO:1 to 185, but the sequences differ from the previously named sequences. SEQ ID NO:11 to 1680 (AAA32323 to AAA33992) are specifically claimed ONs from the present invention. N.B. Sequences given in the disclosure of the present invention do not match up with their corresponding SEQ ID NO: sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothioate; impaired respiration; inflammation; allergy; allergic disease; bronchoconstriction; inhibitor; antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 478; 1343pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 bronchitis, emphysema,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2000-205971/18.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway;
lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human adenosine receptor related polynucleotide SEQ ID NO:1720.
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                                       in the sequence listing.
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Query Match
Best Local Similarity
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Conservative

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Score 8; DB 1; Pred. No. 1.1: 0; Mismatches

DB 1; Le o. 1.1e+02;

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RESULT 191
AAZ77634/c
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                                                                                              (GENZ )
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(SHAN/)
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                Claim 1; Page 65; 130pp; English
                                                                                                                                                                                        19-JUN-1998;
19-JUN-1998;
                                                                                                                                                                                                                                                      19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss
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                                                            WPI; 2000-106077/09.
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                                                                                              ) GENZYME CORP.
) ROBERTS B L.
) SHANKARA S.
                                  ed polynucleotides differentially expressed in antigen-presenting useful in gene vaccines against cancer -
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                                                                              BL, Shankara
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98US-0090036
98US-0090039
98US-0090040
98US-0090042
98US-0090042
98US-0090043
98US-0090045
98US-0090045
98US-0090075
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98US-0090077
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98US-0090078
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98US-0089992.
98US-0089993.
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98US-0089997.
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                                gene vaccines against
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CC activation of the cytotoxic immune response, particularly against tumour cells. Tumour antigen presentation via the MHC (major histocompatibility CC complex) and subsequent recognition by T-cell receptors is alone CC insufficient to activate a robust cytotoxic immune response that can CC lyse the tumour cells, immunostimulatory cofactors also being required CC for efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid CC sequences identified using the SAGE tags have several potential uses. CC They may be used in vaccines to induce an immune response, particularly against a tumour antigen; to modulate the genotype of an APC; to screen CC for against as hybridisation probes/amplification primers for the CC diagnosis, prognosis and monitoring of diseases related to abnormal CC differentially expressed genes. Detection of the dendritic cell correction of these genes. Detection of the dendritic cell containing them are used in gene therapy. Co-administration of these genes can be used in active immunotherapy (or to stimulate correspondention of a population of antigen-specific effector cells) and correction of antigen presentation of co-estimulatory signals, migration to T cell-rich sites, cecretion of T cell growth factors and secretion of chemokines for the secretion of T cell growth factors and secretion of chemokines for correction of immune effector cells.
                                                             Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 with monocytes. Some of the transcripts correspond to known genes or BSTs (expressed sequence tags) which were previously unknown to be preferentially or differentially expressed in dendritic cells, while
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      expression) tags used to identify mRNA transcripts encoding immunostimulatory cofactor proteins which are preferentially or differentially expressed in monocyte-derived dendritic cells compared
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         other transcripts correspond to novel genes. Antigen-presenting cel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (APC) -associated costimulatory factors play an important role in the
                                                             BP; 1 A;
                                                          2 C; 3
                                                          G; 4 T; 0 other;
Length 10;
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밁 Ş Query Match Best Local . Matches Local Similarity 10 9 CAGGCCAA 16 CAGGCCAA 3 Conservative 40.0%; 100.0%; Score 8; DB 1; Pred. No. 1.1.
0; Mismatches 0, DB 1; Ler lo. 1.1e+02; Indels 0, Gaps 0

AAZ79103 standard; DNA; 10 10-APR-2000 (first entry) ВP

Human dendritic cell SAGE tag,

SEQ ID NO:1531.

RESULT 192
AAZ79103/C
ID AAZ791
XX AAZ791
XX 10-APR
XX SAGE t
KW SAGE t
KW APC; m
KW immuno
XX immuno
XX Homo s
XX 19-JUN
PR 19-JUN 19-JUN-1998; 19-JUN-1998; 19-JUN-1998; 19-JUN-1998; 19-JUN-1998; 19-JUN-1998; 19-JUN-1998; SAGE tag; serial analysis of gene expression; antigen-presenting ceAPC; monocyte-derived dendritic cell; differential gene expression; immunostimulatory cofactor; costimulatory factor; CTL; cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; 23-DEC-1999 18-JUN-1999; sapiens 98US-0089833. 98US-0089844. 98US-0089853. 98US-0089878. 98US-0089991. 98US-0089992. 98US-0089993. 99WO-US13800 immunotherapy; anticancer; ss cell;

Sequences AAZ77573-Z79709 represent SAGE (serial analysis of gene

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19-JUN-1998;
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19-JUN-1998;
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19-JUN-1998
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ROBERTS B L.
SHANKARA S.
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                                                                                                                                                                                                                                                                                                Shankara
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98US 0089997

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                                                                                                                                                                                                                                  SAGE (serial analysis
                                                                                                                                                                                                                                 of gene
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differentially expressed genes, or of their encoded proteins, can be used to identify cells as belonging to the monocyte lineage. Cells containing these genes can be used in active immunotherapy (or ostimulate production of a population of antigen-specific effector cells) and vectors containing them are used in gene therapy. Co-administration of tumour antigens and APC-associated costimulatory factors ensures adequate antigen presentation to endogenous APCs and upregulates the APCs for the presentation of co-stimulatory signals, migration to T cell-rich sites, secretion of T cell growth factors and secretion of chemokines for recruitment of immune effector cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               complex) and subsequent recognition by T-cell receptors is alone insufficient to activate a robust cytotoxic immune response that can lyse the tumour cells, immunostimulatory cofactors also being required for efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid sequences identified using the SAGE tags have several potential uses. They may be used in vaccines to induce an immune response, particularly against a tumour antigen; to modulate the genotype of an APC; to screen for agents that modulate expression of differentially expressed genes in an APC; and as hybridisation probes/amplification primers for the diagnosis, prognosis and monitoring of diseases related to abhormal expression of these genes. Detection of their dendritic cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                other transcripts correspond to novel genes. Antigen-presenting cell (APC)-associated costimulatory factors play an important role in the activation of the cytotoxic immune response, particularly against tumour cells. Tumour antigen presentation via the MHC (major histocompatibility
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    with monocytes. Some of the transcripts correspond to known genes or ESTs (expressed sequence tags) which were previously unknown to be preferentially or differentially expressed in dendritic cells, while
Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             differentially expressed in monocyte-derived dendritic cells compared
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Isolated polynucleotides differentially expressed in antigen-presenting
N
Α,
1 C; 4 G; 3 T; 0 other;
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Query Match Best Local Similarity 100.0%; Score 8; DB 1; Le Pred. No. 1.1e+02; Length 10;

Claim 1; Page 115; 130pp; English

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RESULT 193
AAZ79322/c
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                      Isolated polynucleotides differentially expressed in antigen-presenting
cells, useful in gene vaccines against cancer -
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19-JUN-1998
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                                                                                                                                                                                                                                                                                                                                                                             23-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human dendritic cell SAGE tag, SEQ ID NO:1750
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAZ79322 standard;
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                                                                                                                                                                                               19-JUN
                                                                                                                                                                                                      19-JUN-1998
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                                                                               (SHAN/)
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                                              2000-106077/09
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                                                                             GENZYME C
ROBERTS E
SHANKARA
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                                                              ВL,
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                                                              Shankara
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                                                                                                                                                     98US-0090045.
98US-0090047.
98US-0090048.
98US-0090072.
98US-0090076.
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98US-0090040.
98US-0090041.
98US-0090041.
98US-0090042.
98US-0090043.
                                                                              CORP
B L.
A S.
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                                                                                                                       98US-0090079
98US-0090080
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98US-0090035
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98US-0089993
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RESULT 194
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Best Local
                                                                                                                                        19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  differentially expressed genes, or of their encoded proteins, can be used to identify cells as belonging to the monocyte lineage. Cells containing these genes can be used in active immunotherapy for stimulate production of a population of antigen-specific effector cells) and vectors containing them are used in gene therapy. Co-administration of cumour antigens and APC-associated costimulatory factors ensures adequate antigen presentation to endogenous APCs and upregulates the APCs for the presentation of co-stimulatory signals, migration to T cell-rich sites, secretion of T cell growth factors and secretion of chemokines for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               They may be used in vaccines to induce an immune response, particularly against a tumour antigen; to modulate the genotype of an APC; to screen for agents that modulate expression of differentially expressed genes if an APC; and as hybridisation probes/amplification primers for the diagnosis, prognosis and monitoring of diseases related to abnormal expression of these genes. Detection of the dendritic cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             expression) tags used to identify mRNA transcripts encoding immunostimulatory cofactor proteins which are preferentially or differentially expressed in monocyte-derived dendritic cells could be a supersonable to the contract of the contra
                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-DEC-1999.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; metastatic breast tumour tissue; breast cancer; tag; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Metastatic breast
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                                                                                                                                                                                                                                                                                                                                                             18-JUN-1999;
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         (GENZ ) GENZYME CORP
                                                                                               19-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7
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8; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 1 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                      98US-0089853.
98US-0089997.
98US-0090039.
98US-0090040.
98US-0090041.
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                                                                                                                                                                                                                                                                                                                                                             99WO-US13647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            vaccine; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tumour cell upregulated transcript tag #828.
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ne; diagnosis; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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No. 1.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CC transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells).

CC that are preferentially transcribed in the primary or non-metastatic breast tumour cells).

CC that are preferentially transcribed in the primary or non-metastatic breast tumour cells).

CC that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic.

CC Diagnosis is by standard immunoassays or hybridisation/amplification creactions. Compounds that modulate expression of the transcripts are compounders from the transcripts are used to direct expression, in selected concertially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense cell-based vaccines, for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to be anticert and for raising the promoters and and isolate account for the polypeptides can be used to be anticert of the polypeptides can be used to be anticert of the polypeptides can be used to be anticert of the polypeptides can be used to be anticert of the polypeptides can be used to be anticert of the polypeptides can be used to be anticert of the polypeptides can be used to be anticert of the polypeptides can be used to be anticert of the polypeptides or as the produce the polypeptides can be used to be anticert of the polypeptides or as the produce the polypeptides can be used to be anticert of the polypeptides or as the produce the polypeptides or as the produce the polypeptides or as the produce the polypeptides or the polypeptides or the polypeptides or the p
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19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                              W09965928-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; metastatic breast tumour tissue; breast cancer; tag; primer; non-metastatic breast tumour tissue; gene therapy; anticancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Metastatic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         to expand and isolate populations of educated,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 adoptive
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CGGGCCAG 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   breast tumour cell upregulated transcript tag #1316
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                               98US-0089853.
98US-0089997.
98US-0090039.
98US-0090040.
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Pred. No. 1.1e+02;
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Best Local S
Matches 8
    19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
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                                                                                                                        WO9965928-A2
                                                                                                                                                    Homo sapiens
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                                                              18-JUN-1999;
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) ROBERTS B L.
) SHANKARA S.
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8; Conserv
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98US-0089997.
98US-0090039.
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RESULT 197
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GGGCCAGG 10 GGGCCAGG 12

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Metastatic breast tumour cell upregulated transcript tag #2546

07-APR-2000 AAZ83312;

(first

entry)

AAZ83312 standard; DNA;

10 ВP

Human; metastatic breast tumour tissue; breast cancer; tag; primer;

tumour tissue; gene
ne; diagnosis; ss.

therapy; anticancer,

antimetastatic; non-metastatic breast

vaccine;

sapiens

19-JUN-1998; 18-JUN-1999; 23-DEC-1999 WO9965928-A2

98US-0089853 99WO-US13647 Query Match Best Local S Matches 8

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100.0%; 40.0%;

Score 8; I Pred. No. Mismatches

DB 1; Len lo. 1.1e+02;

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Indels

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Length 10;

Conservative

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reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selectlypes, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines; for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or a therapeutic agents. Host cells that produce the polypeptides can be useffecter cells, e.g. cytotoxic T lymphocytes, and these used for
                                                                                                                                                                                                                                                                                                       AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis,
Sequence 10 BP; 1 A; 2 C; 5 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                   monitoring and treatment of breast cancer, particularly where metast. Diagnosis is by standard immunoassays or hybridisation/amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim
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19-JUN-1998;
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) ROBERTS B L
) SHANKARA S.
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                                      immunotherapy.
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98US-0090041.
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also
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RESULT 198
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification
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(ROBE/)
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                                                                                                                                                                                                                                                              Human; metastatic breast tumour tissue; breast cancer; tag; primer;
                                                                                                                                                                                                                                                                                                                     Metastatic breast
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  18-JUN-1999;
                                                   23-DEC-1999.
                                                                                                                                                                                                                                        non-metastatic
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ROBERTS B L.
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98US-0090040.
98US-0090041.
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  99WO-US13647
                                                                                                                                                                                                                                                                                                          tumour cell upregulated transcript tag #3021
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23-DEC-1999

Homo sapiens

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19-JUN-1998;
19-JUN-1998;
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             Human; metastatic breast tumour tissue; per non-metastatic breast tumour tissue; ger
                                                                                                 07-APR-2000
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antimetastatic;
                                                                 Metastatic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               corresponding to distinct transcribed in the metastatic breast in metastatic breast tumour cells).
corresponding to distinct transcripts
                                                                                                                                                                                                                                                                                                                                DB 1;
                                breast cancer;
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                                                                                                                                                                                                                                                                                                                                 .1e+02;
               therapy; anticancer;
                                                                                                                                                                                                                                                                                                                                               Length 10;
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                                tag; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                   used
                                                                 #3089
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RESULT 200
AAZ83864
ID AAZ838
XX AAZ838
XX AZ838
XX O7-APR
XX OF Metast
XX Muman;
KW Human;
KW non-me
KW antime
XX ATRIBUT O7-APR
XX Human;
KW Human;
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic
                                                                                                                              Metastatic breast tumour cell upregulated transcript tag #3098
                                                                                                                                                                   07-APR-2000
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19-JUN-1998;
                                   Homo sapiens
                                                                    antimetastatic;
                                                                                   non-metastatic
                                                                                                  Human; metastatic breast tumour tissue; breast cancer; tag;
                                                                                                                                                                                                     AAZ83864;
                                                                                                                                                                                                                                  AAZ83864 standard; DNA; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 transcripts that
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Roberts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (GENZ )
(ROBE/)
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19-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
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                                                                                                                                                                                                                                                                                                                                                 GTCCGGGC 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   immunotherapy.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 0 A; 3 C; 4 G; 3 T; 0 other;
                                                                                                                                                                  (first entry)
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98US-0089997.
98US-0090039.
98US-0090040.
98US-0090041.
                                                                                   breast
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99WO-US13647
                                                                  breast tumour tissue; gene therapy; vaccine; diagnosis; ss.
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100.0%;
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Pred. No.
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No. 1.1e+02;
0;
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                                                                                   anticancer
                                                                                                  primer;
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RESULT 201
AAZ84284
ID AAZ842
XX
AC AAZ842
XX
DT 07-APR
XX
DE Metast
XX
KW Human;
KW non-me
KW antime
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OS Homo s
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19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         to expand and isolate populations of educated, antigen-specific immune effecter cells, e.g. cytotoxic T lymphocytes, and these used for % \left( 1\right) =\left\{ 1\right\} =\left\{
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18-JUN-1999;
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(ROBE/)
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                                                                                                                                                                                                 l Similarity
8; Conserv
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ROBERTS E
SHANKARA
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                                                                                                   CAGGCCAA 16
                                                                                                                                                                                                                                                                                                                                                                                                                         10 BP; 3 A; 5 C; 2
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                                                                                                                                                                                                       Conservative
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98US-0090041
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98US-0090039
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Pred. No.
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o. 1.1e+02;
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Human; metastatic breast tumour tissue; breast cancer; tag; primer; non-metastatic breast tumour tissue; gene therapy; anticancer; antimetastatic; vaccine; diagnosis; ss.

Homo sapiens

Metastatic 07-APR-2000 AAZ84284

breast tumour

cell downregulated transcript

#3518.

(first entry)

AAZ84284 standard; DNA; 10

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RESULT 202
AAZE5316/C
ID AAZE53
XX AC AAZE53
AC AAZE53
XX O7-APR
XX XX VAPR
DT 07-APR
XX M NON-me
KW Antime
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                                                                                                                                                                                                                                                                                                                                                                                                                           monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines, for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune effecter cells, e.g. cytotoxic T lymphocytes, and these used for
Human; metastatic breast tumour tissue; breast cancer; tag; primer; non-metastatic breast tumour tissue; gene therapy; anticancer; antimetastatic; vaccine; diagnosis; ss.
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19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis,
                                                                                                   07-APR-2000
                                                                                                                                                                  AAZ85316 standard; DNA; 10
                                                                                                                                                                                                                                                                                                                                                                                 Sequence 10 BP; 1 A; 2 C; 7
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                                                                                                                                  AAZ85316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; Page 152; 219pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   prevention and treatment of
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(ROBE/)
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ROBERTS B L.
SHANKARA S.
                                                                                                                                                                                                                                                                                                                                   Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                immunotherapy.
                                                                                                                                                                                                                                                                                  GGGCCAGG 12
                                                             breast tumour cell downregulated transcript tag #4550.
                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                               (first entry)
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98US-0090039
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98US-0090041
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                                                                                                                                                                                                                                                                                                           100.0%; F1
                                                                                                                                                                                                                                                                                                             40.0%; Score 8; DB : 100.0%; Pred. No. 1.: tive 0; Mismatches
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                                                                                                                                                                  ВP
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                                                                                                                                                                                                                                                                                                        DB 1; L., No. 1.1e+02; 0;
                                                                                                                                                                                                                                                                                                                                               Length 10
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RESULT 203
AAZ85453/c
ID AAZ854
XX AAZ854
XC AAZ854
XT 07-APR
XX Metast
XX Metast
XX Human;
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                                                                                                                                                                                                                                                                                            Query Match
Best Local (
                                                                                                                                                                                                                                                                                Matches
                                 Metastatic
                                                                  07-APR-2000
                                                                                                  AAZ85453
                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         transcripts that are preferentially tumour tissue (i.e. are upregulated AAZ83942 to AAZ86677 represent tags
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19-JUN-1998;
19-JUN-1998;
                                                                                                                                  AAZ85453 standard; DNA; 10
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(ROBE/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis,
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ROBERTS B L.
                                                                                                                                                                                                                                                                              Similarity
8; Conserv
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                                                                                                                                                                                                                                                                                                                                                                             immunotherapy.
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                                                                                                                                                                                                                 GCCAGGCC
                                 breast tumour cell downregulated transcript tag
                                                                                                                                                                                                                                                                                                                                             BP; 1 A; 4 C;
                                                                                                                                                                                                                                                                                Conservative
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                                                                  (first entry)
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98US-0090039.
98US-0090040.
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Pred. No.
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                                                                                                                                                                                                                                                                                              DB 1; Length 10;
o. 1.1e+02;
                                                                                                                                                                                                                                                                                                                                               other;
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                                 #4687.
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Human; metastatic breast tumour tissue; breast cancer; tag; primer;

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RESULT 204
AAZ85585/c
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Best Local Similarity
Conserv
      DXAX FXB
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                                                                                                                                                                                                                                                                                                promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines; for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune
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19-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer -
Metastatic breast tumour cell downregulated transcript tag #4819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                monitoring and treatment of breast cancer, particularly where metastatic Diagnosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while
                                 07-APR-2000
                                                                AAZ85585
                                                                                              AAZ85585 standard; DNA; 10 BP
                                                                                                                                                                                                                                                                                                Sequence 10
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(ROBE/)
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antimetastatic; vaccine; diagnosis; ss.
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                                                                                                                                                                                                                                                                                                                             cells, e.g. cy immunotherapy.
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                                                                                                                                                                                                                                     Conservative
                                (first entry)
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98US-0089997.
98US-0090039.
98US-0090040.
98US-0090041.
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                                                                                                                                                                                                                                                                                                2 A; 1 C; 4 G; 3 T; 0 other;
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                                                                                                                                                                                                                              100.0%;
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o. 1.1e+02;
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RESULT 205
AAZ85596/c
ID AAZ855
XX
AC AAZ855
XX
AC AAZ855
XX
DT 07-APR

AA285596 standard; DNA; 10

ВР

07-APR-2000 AAZ85596;

(first entry)

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œ ທ Query Match Best Local S Matches 8

Similarity 8; Conserv

Conservative

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40.0%;

100.0%;

Score 8; DB 1; Pred. No. 1.1
0; Mismatches

DB 1; Le o. 1.1e+02;

Length 10; Indels

0

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Gaps

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GGGCCAGG 12

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CC transcripts that are preferentially transcribed in the metastatic breast cumour tissue (i.e. are upregulated in metastatic breast tumour cells). CC ALZ83942 to ALZ86677 represent tags corresponding to distinct transcripts CC that are preferentially transcribed in the primary or non-metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, compitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification creattions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while commonters from the transcripts are used to direct expression, in selected CC cell types, of e.g. therapeutic genes (also ribozymes or antisense cancers), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also CC useful in vaccines (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune ceffecter cells, e.g. Cyctoxic T lymphocytes, and these used for
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19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
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Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  prevention and treatment of cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GENZ )
(ROBE/)
(SHAN/)
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                                                    adoptive
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ROBERTS B L
SHANKARA S.
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                                                       immunotherapy.
  BP; 0
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98US-0090039.
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98US-0090041.
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  5 C; 2
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  G; 3 T; 0
  other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                expressed between metastatic useful for diagnosis,
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ne therapy; anticancer;
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RESULT 206
AAZ85958
ID AAZ859
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Best Local Similarity
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19-JUN-1998;
19-JUN-1998;
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AAZ85958;
                               AAZ85958 standard; DNA; 10
                                                                                                                                                                                                                                                    Sequence 10 BP; 0 A; 6 C; 2
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ROBERTS B L.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Page 188; 219pp; English.
                                                                                                                                                                                                                                                                                                     cells,
                                                                                                                                                 GGGCCAGG 12
                                                                                                                                                                                     Conservative
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                               ВР
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o. 1.1e+02;
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RESULT 207 ABA06090 ID ABA060

ABA06090 standard; cDNA; 10 BP

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                                                                                                                          AZ80767 to AAZ83941 represent tags corresponding to distinct cranscripts that are preferentially transcribed in the metastatic breast cumour tissue (i.e. are upregulated in metastatic breast tumour cells). CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts can be used for diagnosis, prognosis, cells). These transcripts can be used for diagnosis, prognosis, compounds that modulate expression of the transcripts are corresponding to distinct breast tumour cells). These transcripts can be used for diagnosis, prognosis, compounds that modulate expression of the transcripts are corrections. Compounds that modulate expression of the transcripts are concerned by useful for treatment of (metastatic) breast cancer, while concern the transcripts are used to direct expression, in selected concerns, particularly anticypeptides encoded by the transcripts are also concerned. Polypeptides encoded by the transcripts are also consecution apents. Host cells that produce the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune effecter cells, e.g. cytotoxic T lymphocytes, and these used for adaptive immunerherans.
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Matches 8
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19-JUN-1998;
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                                                                                                                                                       adoptive immunotherapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1; Page 196; 219pp; English.
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                                                           Score 8; DB 1; Pred. No. 1.1
0; Mismatches
                                                                          DB 1; Le
o. 1.1e+02;
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                                                                                        Length 10,
                                                             Indels
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RESULT 208
AAH63781
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                               group comprising 200 genes in the human normal hepatocyte. The CDNA of each gene comprises one of 200 fully defined nucleotide sequences as given in the specification. The gene group and the cDNAs corresponding to each of the genes in the group are useful in the diagnosis and treatment of human hepatopathy. The present sequence is a cDNA corresponding to a gene expressed by normal human
                                                                                                                                                Human; transcriptome; cancer diagnosis; cel.
                                                                                                                                                                             Human ubiquitously expressed transcriptome sequence SEQ
 Velculescu VE,
                                                              21-NOV-2000;
                                                                                   31-MAY-2001
                                                                                                                            Homo sapiens
                                                                                                                                                                                                      20-SEP-2001
                                                                                                                                                                                                                           AAH63781;
                                                                                                                                                                                                                                                                                                                                                                                  Sequence 10 BP; 3 A; 3 C; 4 G; 0 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a human normal hepatocyte expression gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31-JAN-2000; 2000JP-0023170
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                                         24-NOV-1999;
                                                                                                        WO200138577-A2
                                                                                                                                                                                                                                             AAH63781 standard; cDNA;
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                    (UYJO ) UNIV JOHNS HOPKINS
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8; Conserv
                                                                                                                                                                                                                                                                                                CAGGCCAA 9
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                                                                                                                                                                                                                                                                                                                                           Conservative
                                                              2000WO-US31922
                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hepatocyte expression
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                                         99US-0448480
Vogelstein B,
                                                                                                                                                cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene expression; hepatopathy; ss.
                                                                                                                                                                                                                                                                                                                                                    100.0%;
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                                                                                                                                                          gene expression pattern; cancer; drug
                                                                                                                                                specific gene expression;
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                                                                                                                                                                                                                                                                                                                                          0;
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Pred. No.
 Kinzler KW;
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RESULT 209
AAH64036/C
ID AAH640
XX AAH640
XX AAH640
XX Human
XX Human;
KW Cancer
XX Homo s
PN W02001
XX 21-NOV
PF 21-NOV
XX 21-NOV
PF 21-NOV
PF 21-NOV
XX Y
XX PF 21-NOV
XX PF 21-NOV
XX Cancer
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PT Partic
XX Claim
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Best Local S
Matches
                                                                                                          The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences
AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce cancer specific gene expression, standardise expression and restore the function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                               New isolated polynucleotides, useful type, such as cancer cell, comprises particular cell types -
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                          cancer specific gene expression, standardise expression and restore t function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; transcriptome; gene expression pattern; cancer diagnosis; cell specific gene expression;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 10
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                                                                                                                                                                                                                                                                                         Claim 13; Page
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2001-367706/38.
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                                                                                                                                                                                                                                                                                         59; 94pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99US-0448480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Vogelstein
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kinzler
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                                                                                                                                                                                                                                                                                                                                                                          for identifying specific transcriptomes expressed
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                                                                                      restore the
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RESULT 211
AAH64374/c
ID AAH643
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AC AAH643
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AC AAH643
XX
DT 20-SEP
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AAH64037/c
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Best Local S
Matches 8
                                                                                                            Matches
                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                        The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH613161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce cancer specific gene expression, standardise expression and restore the function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.
                                                                                                                                                                                                                                                     New isolated polynucleotides, useful type, such as cancer cell, comprises particular cell types -
 20-SEP-2001
                  AAH64374;
                                AAH64374 standard; cDNA; 10
                                                                                                                                           Sequence 10 BP; 1 A; 4 C; 4 G; 1 T; 0 other;
                                                                                                                                                                                                                                     Claim 13; Page 59; 94pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                          Human; transcriptome; gene expression pattern; cancer; drug screening; cancer diagnosis; cell specific gene expression; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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                                                                                                                                                                                                                                                                                                                                         24-NOV-1999;
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8; Conserv
                                                                          GCCAGGCC 3
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(first entry)
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100.0%; Pr
                                                                                                        100.0%; FI
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0; Mismatches
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                                                                                                                                                                                                                                                                                                        Kinzler KW
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                                                                                                       DB 1; NO. 1.1e+02; 0;
                                                                                                                                                                                                                                                             for identifying specific transcriptomes expressed
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b. 1.1e+02;
                                                                                                                          Length 10;
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RESULT 212
AAH64375/c
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Matches 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human;
cancer
24-NOV-1999;
                                          21-NOV-2000; 2000WO-US31922
                                                                                     31-MAY-2001
                                                                                                                            WO200138577-A2
                                                                                                                                                                                                                                                                                Human ubiquitously expressed transcriptome sequence SEQ ID NO: 1215.
                                                                                                                                                                                                                                                                                                                             20-SEP-2001
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                                                                                                                                                                      sapiens
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8; Conserv
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nilarity 100.0%;
Conservative 0
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Pred. No. 1.1
0; Mismatches
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o. 1.1e+02;
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(UYJO ) UNIV JOHNS HOPKINS

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RESULT 213
AAH32825
ID AAH328
XX AAH328
XX AAH328
XX LPS ac
XX Human;
XW expres
XX JP2001
XX JP2001
XX JP2001
XX JP2001
XX JP2001
XX JP2001
XX WPI;
PA (KAGA-
XX WPI;
PA (KAGA-
XX WPI;
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XX WPI;
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XX CLaim
XX Claim
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XX Sequer
CC Human
CC Genes
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CC Genes
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Matches 8
              The present invention describes an lipopolysaccharide (LPS) activated human monocyte expression gene group consisting of the high ranking 50 genes of the highst expression among the genes expressed by human monocyte stimulated by LPS in which the cDNA of each gene has the base sequence of (AAH32628 to AAH32677) continuous to the base sequence 5'-CATG-3' nearest to the polyA region. The gene group is useful for the development of new means for the diagnosis and the treatment of various human diseases in which human monocyte plays an important role.

AAH32628 to AAH32943 represent specifically claimed LPS activated human monocyte expression gene cDNA tags from the present invention. AAH32944 represents an LPS activated human monocyte expression gene cDNA tags from the present invention.
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                                                                                                                                                                                                                                                                                                                                       LPS activated human monocyte expression gene
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                08-JUL-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                 (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
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8; Conserv
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100.0%; Pr
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are given
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0; Mismatches
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the exemplification of
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5. 1.1e+02;
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RESULT 214
AAH32856/c
ID AAH328
XX AAH328
XX AAH328
XX LPS ac
XX Human;
KW expres
XX JP2001
XX GAGA-
XX WPI; 7
XX LPS ac
XX WPI; 7
XX LPS ac
XX Claim
XX Claim
XX Claim
XX Claim
XX Genes
CC monoc;
CC devel;
CC devel;
CC devel;
CC deven
CC reprec
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Matches 8
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                                                                                                                                           Query Match
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                                                                                                                                                                                                                               Sequence 10
                                                                                                                                                                                                                                                                                      encoding AAB98009, invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
ω
                                                         6 GGCCAGGC 13
                                                                                                            l Similarity
8; Conserv
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8; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Page
                                                                                                                                                                                                                               BP; 1 A; 4 C; 3 G; 2 T; 0 other;
                                                                                                                  Conservative
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100.0%; Pred. No.
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o. 1.1e+02;
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o. 1.1e
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RESULT 215 AAF39487/c ID AAF394 XX

AAF39487 standard; DNA;

10 BP.

AAF39487;

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                                                                                                                                  CC coding sequence of a yeast gene selected from a group of 745 NORF (not CC previously assigned open reading frame; or nonamnotated ORF) genes CC comprising a SAGE (serial analysis of gene expression) tag. Also CC described are: (1) a method (M1) of using NORF genes to affect the cell CC cycle comprising administering a NORF gene whose expression varies by at CC least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate CC antifungal drugs comprising: (a) contacting a test substance with a CC yeast cell; and (b) monitoring expression of a NORF gene whose cexpression varies as in M1, where a test substance which modifies the CC expression varies as in M1, where a test substance which comprises CC expression comprising contacting human DNA with a probe which comprises CC at least 10 contiguous nucleotides of a NORF gene whose expression varies as a candidate and (4) a method (M4) for identifying a candidate drug as a contacting expression in the yeast cell of at least 10 contiguous nucleotides of a NORF gene whose expression varies CC as in M1; and (4) a method (M4) for identifying a candidate drug as a candidate drug and monitoring expression in the yeast cell with a CC candidate drug and monitoring expression in the yeast cell of at least 1 CC candidate drug and monitoring expression in the yeast cell of at least 1 CC use in M1; and (4) a method way be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which confict the present invention. AAF31262 to AAF31267 represent linkers and PCR CC invention.
                                                                Query Match
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Matches 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Yeast gene coding sequences comprising of gene expression (SAGE) tags, useful affecting phases of the cell cycle -
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                                                                                                                                 Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example; Page 222; 419pp; English.
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                               12
                                                                Similarity
8; Conserv
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GCCAAAGT 1
                               GCCAAAGT 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gene SAGE
                                                                                                                                 B₽;
                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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                                                                                                   40.0%;
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                                                                                .0%;
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                                                                                                                                 G;
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Pred. No.
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                                                                  Mismatches
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0
                                                                              DB 1; Le
o. 1.1e+02;
                                                                                                                                 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ
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                                                                                            Length 10;
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                                                                Indels
                                                             0;
                                                              Gaps
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S

Matches Query Match Best Local

Similarity 8; Conserv

Conservative

0;

Score 8; DB 1; Pred. No. 1.1

DB 1; Le o. 1.1e+02;

Length 10;

0

Indels

0

Gaps

0

Sequence 10

BP; 0

A; 3 C; 5 40.0%;

G; 2 T; 0 other;

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RESULT 216
AAR411433/c
ID AAR4144
XX AAR414
XX AAR414
XX Yeast;
XX Yeast;
XX Yeast;
XX Nor pr
XX Saccha
PN WO2000
XX Linker
OS Saccha
PN WO2000
XX I1-JUN
XX I6-JUN
PR 14-JUN
XX I6-JUN
PR (UYJO
XX Veast
PT of gener
CC The pl
CC The pl
CC Compr:
CC Aaffec
CC AAF33
CC AAF33
CC AAF33
CC Inven
XX Seque
                                                                      CC cycle comprising administering a NORF gene whose expression varies by at CC least 10% between any two phases of the cell cycle selected from log cphase, S phase and G2/M; (2) a method (M2) for screening candidate CC antifungal drugs comprising: (a) contacting a test substance with a CC expression varies as in M1, where a test substance which modifies the CC expression of the yeast gene is a candidate antifungal drug; (3) a method (M3) for identifying human genes which are involved in cell cycle CC progression comprising contacting human DNA with a probe which comprises CC at least 10 contiguous nucleotides of a NORF gene whose expression varies at 1, M1; and (4) a method (M4) for identifying a candidate drug as a CC member of a class of drugs having a characteristic effect on gene CC expression in a yeast cell comprising contacting a yeast cell with a CC candidate drug and monitoring expression in the yeast cell of at least 1 CC of the differentially expressed genes may be used to drugs. The NORF CC genes may be used to study, monitor and affect phases of the cell cycle. The methods may be used as markers of phases of the cell cycle and for identification of antifungal drugs. CAAF33268 to AAF33268 to AAF33267 represent linkers and PCR comparison used in the SAGE method, in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       previously assigned open remains of gene expression) tag. Also comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell described are: (1) a method (M1) of using NORF gene whose expression varies by a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes an isolated DNA molecule comprising a coding sequence of a yeast gene selected from a group of 745 NORF (not previously assigned open reading frame; or nonannotated ORF) genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Yeast gene coding sequences comprising NORF genes with serial analy of gene expression (SAGE) tags, useful for studying, monitoring and affecting phases of the cell cycle -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF; nor previously assigned open reading frame; nonannotated ORF; SAGE; serial analysis of gene expression; antifungal; tag; identification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF41493 standard; DNA; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example; Page 294; 419pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-JUN-2000; 2000WO-US16223
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cycle; NORF;
d ORF; SAGE;
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RESULT 217
ABV84307
ID ABV843
RESULT 218
ABV84789
ID ABV847
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                                                                                                                                                                                                                                                                                                                    The invention relates to SAGE (serial analysis of gene expression) tags Crepresenting groups of genes which are differentially expressed in human Chronic hepatitis C (CH) liver tissue or hepatitis C induced the patocellular carcinoma (HCC) compared with normal human liver tissue. The SAGE tags of this invention consist of a sequence of 10 nucleotides concated downstream of the 5'-CATG-3' sequence motif lying nearest to the polyA region of cDNAs derived from a variety of genes. These tags serve to uniquely identify each transcript and can thus be used to analyse the pattern of gene expression in particular cell types. The invention also relates to proteins encoded by the genes expressed in chronic hepatitis C liver tissue or HCC, antibodies against these proteins, and inhibitors of the expression of groups of genes that are overexpressed in chronic hepatitis C liver tissue or HCC. Groups of genes differentially expressed in chronic hepatitis C liver tissue or HCC may be used for the diagnosis and treatment of these diseases. Such genes, inhibitors of their expression of activity, and antibodies against the gene products may be used in the development of drugs to treat chronic hepatitis C and/or HCC. Sequences
                                                                                                                                                             Best Local S
Matches 8
ABV84789 standard; cDNA; 10
                                                                                                                                                                                                                                                                  ABV84291-ABV84390 are SAGE tags representing the 100 least highly expressed genes out of those genes which are underexpressed in chepatitis C liver tissue compared with normal liver tissue.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human chronic hepatitis C tissue expression exasperating gene group comprises 100 high-ranking genes -
                                                                                                                                                                                                                                Sequence 10 BP; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 10; Page 13; 139pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            expression pattern; differential expression; EST; expressed sequence tag;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SAGE tag; serial analysis of gene expression; human; chronic hepatitis CH; liver tissue; hepatocellular carcinoma; cancer; tumour; HCC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human chronic hepatitis C tissue underexpressed EST SAGE tag #117.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19-JAN-2001; 2001JP-0012328
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                                                                                                                          10 AGGCCAAA 17
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                                                                                                                                                             Similarity
8; Conserv
                                                                                                                                                               Conservative
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                                                                                                                                                                                                                                    2 C; 3
                                                                                                                                                      J.08;
 BP.
                                                                                                                                                                                                                                  G; 0 U; 0
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                                                                                                                                                                              Score 8;
Pred. No.
                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                    other;
                                                                                                                                                                                  DB 1;
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                                                                                                                                                                                             Length 10;
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                                                                                                                                                           Gaps
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ABV78459
ID ABV7
XX
AC ABV7
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AC 29-N
DT 29-N
XX
DE Huma
XX
XX
KW SAGI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to SAGE (serial analysis of gene expression) tags or representing groups of genes which are differentially expressed in human CC chronic hepatitis C (CH) liver tissue or hepatitis C-induced hepatocellular carcinoma (HCC) compared with normal human liver tissue. CC located downstream of the 5'-CATG-3' sequence motif lying nearest to the golya region of cDNAs derived from a variety of genes. These tags serve to uniquely identify each transcript and can thus be used to analyse the pattern of gene expression in particular cell types. The invention also collates to proteins encoded by the genes expressed in chronic hepatitis C liver tissue or HCC, antibodies against these proteins, and inhibitors con the expression of groups of genes that are overexpressed in chronic hepatitis C liver tissue or HCC. Groups of genes differentially expressed in chronic hepatitis C liver tissue or HCC may be used for the diagnosis and cor activity, and antibodies against the gene groups of their expression or activity, and antibodies against the gene products may be used in the C development of drugs to treat chronic hepatitis C and/or HCC. Sequences CC ABV84591-ABV84790 are SAGE tags representing the 100 least highly companies and the companies of the companies of those genes which are underexpressed in the CC means are saged to those genes which are underexpressed in the CC means are saged to the companies of th
                                                                                                                                                                                                                              RESULT 219
                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local
SAGE tag; serial analysis of gene expression; human; Th1 cell;
                                        Human Th1 cell preferentially expressed EST SAGE tag, SEQ ID NO:170.
                                                                                          29-NOV-2002
                                                                                                                                    ABV78459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 10 BP; 1 A; 2 C; 6 G; 1 T; 0 other;
                                                                                                                                                                                 ABV78459 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   expression pattern;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SAGE tag; serial analysis of gene expression; human; chronic hepatitis C; CH; liver tissue; hepatocellular carcinoma; cancer; tumour; HCC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human gamma-glutamyltransferase 1 SAGE tag #599
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                                                                                                                                                                                                                                                                                                                             5 GGGCCAGG 12
                                                                                                                                                                                                                                                                                                                                                                                        Similarity
8; Conserv
                                                                                                                                                                                                                                                                                                   GGGCCAGG 10
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                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                       (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                           DB 1; Ler
No. 1.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 10;
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RESULT 220
ABL57664
ID ABL576
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CC The invention relates to SAGE (serial analysis of gene expression) tags CC representing groups of genes which are expressed in activated human Th1 CC and/or Th2 cells. The SAGE tags of this invention consist of a sequence of 10 nucleotides located downstream of the 5'-CATG-3' sequence motif CC lying nearest to the polyA region of cDNAs derived from a variety of CC genes. These tags serve to uniquely identify each transcript and can thus be used to analyse the pattern of gene expression in particular cell CC types. The invention also relates to proteins encoded by the genes CC expressed in Th1 and/or Th2 cells, antibodies against these proteins, and inhibitors of the expression of groups of genes that are expressed in Th1 cells there or both the two cell types. Groups of genes expressed in Th1 cand Th2-related disorders. Sequences ABU78330-ABU78560 are SAGE tags CC representing 171 genes which are more highly expressed in Th1 cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S
Matches 8
08-SEP-2000; 2000US-231129P
                                                                                                                                                gene therapy; resp
primer extension;
                                                                                                                                                                              SCYA24; human; small inducible cytokine;
                                                                                                                                                                                                         Human SCYA24 primer-extension oligonucleotide
                                                                                                                                                                                                                                                                        ABL57664;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 10 BP; 4 A; 2 C; 4 G; 0 U; 0 other;
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                                                                                        WO200220851-A1
                                                                                                                                                                                                                                          08-OCT-2002
                                                                                                                                                                                                                                                                                                    ABL57664 standard;
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                             10-SEP-2001; 2001WO-US28328
                                                                                                                    domo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               activated Th1 and Th2 cell expression gene group, useful for ssis and treatment of Th1 and Th2-related diseases -
                                                                                                                                                                                                                                                                                                                                                                                                      11 GGCCAAAG 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                             GGCCAAAG 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 11; 60pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                              respiratory inflammatory disease; polymorphism; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   40.0%;
                                                                                                                                                                                                                                                                                                    10
                                                                                                                                                                                                                                                                                                    ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 8; I
                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Ler
o. 1.1e+02;
                                                                                                                                                                              isogene; antiasthmatic;
                                                                                                                                                                                                           #19
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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RESULT 221
ABK95840
ID ABK9588
XX ABK958
AC AB
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a novel isolated polynucleotide comprising a small inducible cytokine subfamily A (cys-cys), member 24 (SCYA24) isogene. The polypeptide of the invention has antiasthmatic activity. The polynucleotide may have a use in gene therapy. The polynucleotide and polypeptide are useful in the the development of drugs for treating diseases associated with SCYA24 activity, e.g. respiratory inflammatory diseases such as asthma. The 3' end sequences of oligonucleotide primers used for detecting polymorphisms in the SCYA24 gene by primer extension are represented in ABL57646-ABL57675.
                                                                                                                                                                Novel genetic variants of Solute Carrier Family 1 (Glutamate/Neutral Amino Acid Transporter), Member 4 isogenes, for improving efficiency and reliability in drug development for treating cancers -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Solute carrier family 1; SLC1A4; haplotyping; human; cancer; priglutamate/neutral amino acid transporter; neurological disease; amino acid transporter disorder; single nucleotide polymorphism.
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                                                                                                             Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-NOV-2001; 2001WO-US44781.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Solute Carrier Family 1 (SLC1A4) primer extension oligonucleotide #11.
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                                                                                                                                                                                                                                                                                                                                                                                                  (GENA-) GENAISSANCE PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGGCCAGG 10
                                                                                                                                                                                                                                                                                                                                            <u>Α</u>
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                                                                                                             Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             40.0%; nilarity 100.0%; Conservative 0
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                                                                                                             16; 139pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entry)
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                                                                                                                                                                                                                                                                                                                                               Russo DP,
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                                                                                                                                                                                                                                                                                                                                               Sausker
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               88;
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The invention relates to an isolated polynucleotide (I) comprising a first nucleotide sequence which comprises solute carrier family 1 (glutamate/neutral amino acid transporter), member 4 (SLC1A4) isogen

isogenes

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RESULT 222
ABK72637/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 8
                                               Novel isolated human leukotriene B4 receptor polynucleotide, usef therapeutic purposes, for studying expression and function of the polynucleotide, and for expressing the receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SICIAY gene allele specific oligonucleotides, oligonucleotides and related PCR primers used nucleotide polymorphisms (SNP) of the gene.
Claim 17; Page 14; 69pp; English
                                                                                                                                                                                                                       Bieglecki KM,
                                                                                                                                                                                                                                                                                                                                                                                       12-OCT-2001; 2001WO-US32002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer extension oligonucleotide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        chemoattractant; inflammation; immune response;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human, leukotriene B4; receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Leukotriene B4 receptor primer extension oligonucleotide #9
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                                                                                                                                                                                                                                                                            GENAISSANCE PHARM INC.
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8; Conserv
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                                                                                                                                                                                                                       Chew A,
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                                                                                                                                                                                                                    Koshy B,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               chemokine receptor-like 1; LTB4R;
                                                                                                                                                                                                                    Sanchis A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1; Lei
o. 1.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  animal;
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                                                                                                                                                                                                                       Sausker EA;
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                                                                                                          useful for
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밁 S

The invention describes an isolated (chemokine receptor-like 1) (LTB4R)

human leukotriene B4 receptor polynucleotide (I) comprising

The invention describes an isolated human pyridoxal (pyridoxine, vitamin B6) kinase, (PDXK) polynucleotide. The polynucleotide is useful in studying the expression and function of PDXK, and in expressing PDXK protein for use in screening for candidate drugs to treat PDXK related diseases and for therapeutic purposes. A transgenic animal is useful for studying expression of the PDXK isogenes in vivo, for in vivo screening and testing of drugs targeted against PDXK protein, and for testing the efficacy of therapeutic agents and compounds for autoimmune polyglandular disease type 1. The polypeptide is useful for studying the effect of the variation on the biological activity of PDXK and the binding affinity of

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RESULT 223
ABK17015/c
ID ABK170
AC A
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                             Isolated human pyridoxal (pyridoxine, vitamin B6) kinase polyNts. useful for therapeutic purposes, for studying the expression and function of the polyNt, and for expressing pyridoxal protein -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pyridoxal kinase; pyridoxine; vitamin B6; PDXK autoimmune polyglandular disease type 1; transgenic gene therapy; primer extension; primer; ss.
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                                                                                                                                                                                                                                                                                                                                                     Claim 19; Page 14; 135pp; English.
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The invention describes an isolated polynucleotide comprising a nucleotide sequence which is a polymorphic variant of a reference sequence for the aldehyde dehydrogenase 5 family, member Al (succinate-semialdehyde dehydrogenase) (ALDH5Al) gene or its fragment. The polymorphic variant with a candidate agent and contacting the ALDH5Al polymorphic variant with a candidate agent and assaying for binding activity. The polymorphide and haplotypes are useful for identifying an association between a trait such as a clinical response to a drug targeting ALDH5Al and a haplotype ALDH5Al gene. Transgenic animals are also useful for studying expression of the ALDH5Al isogenes in vivo, for in vivo screening and testing of drugs against ALDH5Al protein and for testing the efficacy of therapeutic agents and
                                                                                                                                                                                                                                                                                                                                                                                                           New genetic variants of human aldehyde dehydrogenase 5 family, member Al, ALDH5Al gene for treating metabolic diseases and for expressing ALDH5Al protein useful in identifying drugs to treat 4-hydroxybutyric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Aldehyde dehydrogenase 5 family member A1; ALDH5A1; succinate-semialdehyde dehydrogenase; gene therapy; prisuccinate-semialdehyde dehydrogenase; oligonucleotide
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                                                                                                                                                                                                                                                                                                                                    Claim 18; Page 15; 151pp; English
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4-hydroxybutyric aciduria; metabolic disease; transgenic animal;
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100.0%; Pre
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                        The invention relates to an isolated human superoxide dismutase 1, csoluble (amyotrophic lateral sclerosis 1 (adult)) (SODI) polynucleotide (I) comprising a sequence which is a polymorphic variant of a reference sequence for the SODI gene. Haplotyping the SODI gene of an individual, involves: (a) determining whether the individual has one of the SODI haplotypes or haplotype pairs given in the specification; or the individual, or compared to the individual has one of the SODI compared to the identity of the nucleotide at two or more polymorphic sites selected from PSI-7. The method is useful for determining whether an individual has a haplotype or haplotype pairs defined in the specification. The method is also useful for improving the efficacy and reliability of several steps in the discovery and development of drugs for treating diseases associated with SODI activity, e.g., amyotrophic lateral selection or disease associated with SODI activity. It can for the the province of the second to be a second to the 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Isolated human superoxide dismutase 1 (SOD1) soluble polynucleotide useful for screening therapeutic compounds, comprises a sequence whis a polymorphic variant of reference sequence for the SOD1 gene or
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b. 1.1e+02;
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RESULT 226
ABL36370
ID ABL363
XX Human;
KW Human;
KW Lysoso
KW Hodgki
KW Iysoso
KW Hodgki
KW Iysoso
KW Homo s
XX Homo s
XX Homo s
XX WO2001
XX O7-JUN
XX O7-
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Best Local S
Matches 8
                                                                                                                                                     The invention comprises the human lysosomal acid phosphatase 2 (ACP2) nucleic acid and protein sequences. Specifically, the invention relates to the discovery of 22 novel polymorphic sites within the APC2 gene. The invention also comprises methods for haplotyping and genotyping the ACP2 gene in an individual. The ACP2 gene (located on chromosome 11) encodes a lysosomal-specific enzyme that catalyses the hydrolysis of orthophosphoric monoesters to alcohol and phosphate. The ACP2 gene and protein are pharmaceutically important in the treatment of Hodgkin's disease (HD) and acid phosphatase deficiency. The novel ACP2 gene polymorphisms of the invention are useful in haplotyping the ACP2 gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 treating a specific condition or disease predicted to be associated with SOD1 activity. (I) is useful in studying the expression and function of SOD1, and in expressing SOD1 protein for use in screening for candidate drugs to treat diseases related to SOD1 activity. AAS95660-AAS95710 represent human superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult) (SOD1) allele-specific oligonucleotides and related PCR primers as described in the method of the invention.
                              ACP2 haplotyping is useful in validating ACP2 as a target (and designing drugs) for treating an ACP2-related disease or condition (e.g. Hodgkin's disease and acid phosphatase deficiency). The ACP2 gene polymorphisms are useful for ACP2 genotyping, which can also be used to develop diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; ss; lysosomal acid phosphatase 2; ACP2; gene; chromosome 11; lysosome-specific enzyme; orthophosphoric monoester hydrolysis; lydokin's disease; HD; acid phosphatase deficiency; novel polymorphic site; ACP2 haplotype; ACP2 genotype; polymorphism; transgenic animal; primer; probe; primer-extension oligonucleotide; SNP; single nucleotide polymorphism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gene useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-JUN-2001; 2001WO-US18457
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human lysosomal acid phosphatase 2 primer-extension oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22-APR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GENA-) GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13-DEC-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2002-154563/20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        l genetic variants of acid phosphatase 2, lysosomal polypeptide useful in studying expression and function of the protein, and ming drugs to treat diseases e.g. Hodgkin's disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SE,
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8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 15; 109pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Messer C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
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Pred. No.
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   protein
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and nucleic acids
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B 8

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Query Match Best Local S Matches 8

Similarity 8; Conserva 9 CAGGCCAA 16

Conservative 0;

Score 8; DB 1 Pred. No. 1.1 0; Mismatches

DB 1; Le

Length 10

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Gaps

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RESULT 22
ABL42760
ID ABL42760
ID ABL42760
ID ABL4
AC 
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Best Local
                                       human maturation/activation DC expression gene; (2) an antibody against the protein; and (3) an antagonist against the expression of each gene belonging to the above gene group. The gene group is useful for the treatment and the diagnosis of various human diseases related to human DC. ABL42627 to ABL42926 represent specifically claimed human maturation/activation DC expression gene tags from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the invention are useful in the production of a transgenic animal which expresses ACP2 protein. The ACP2 nucleic acids of the invention are useful in the production of allele-specific oligonucleotides designed to genotype each of the ACP2 polymorphisms. Nucleic acids ABL36299-ABL36320 represent claimed ACP2 allele-specific probes. Nucleic acids ABL36231-ABL36364 represent claimed ACP2 allele-specific probes. Nucleic acids ABL36541-ABL36364 acids ABL3664-ABL366408 represent claimed ACP2 primer-extension
   Sequence 10
                                                                                                                                                                                                                                               The present invention describes a human maturation/activation dendritic cell (DC) expression gene group consisting of 100 genes which show the highest expression among the genes expressed in human maturation/ activation DC. Also described are: (1) a protein expressed by the above activation DC. Also described are:
                                                                                                                                                                                                                                                                                                                                                                                                                Claim 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human maturation/activation dendritic cell expression gene group
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22-MAY-2000; 2000JP+0150562
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; maturation/activation dendritic cell maturation; activation; dendritic cell; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
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8; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCCGGGCC 10
                                                                                                                                                                                                                                                                                                                                                                                                             Page 12;
BP; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP; 1
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                                                                                                                                                                                                                                                                                                                                                                                                          41pp; Japanese
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   3 C; 4 G; 0 U;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
   0
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o. 1.1e+02;
   other;
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RESULT 228
ABL42855/c
ID ABL42855 standard; cDNA; 10 BP
XX
AC ABL42855;
XX
DT 12-APR-2002 (first entry)
XX
Human maturation/activation de
XX
DE Human maturation/activation de
XX
Human maturation/activation; dendri
XX
DF JP2001327293-A.
XX
DF 27-NOV-2001.
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PN JP2001327293-A.
XX
PN JP20013272900; 2000JP-015
RESULT 229
ABQ81865
ID ABQ818
XX ABQ818
AC ABQ818
XX 19-NOV
XX Laposi
XX Human;
XX Human;
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XX Homo &
XX ABQ818
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Best Local
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                             23-JAN-2002; 2002EP-0075264
                                                                                                   24-JUL-2002.
                                                                                                                                                                                                                                                                                           Human; Kaposi's
                                                                                                                                                                                                                                                                                                                                                Kaposi's Sarcoma SAGE library Tag No.15 SEQ ID NO:15
                                                                                                                                                                                                                                                                                                                                                                                                                   19-NOV-2002
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                                                                                                                                                                                                                           Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19; Page 15; 41pp; Japanese
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No. 1.1e+02;
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Humm
DE Humm
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention describes a method for determining if an individual has a tumour cell or site of angiogenesis, or if a treatment is effective in changing angiogenesis or changing a status of a set of target cells, comprising determining if a sample of the subject has an expression product of at least one marker gene. Also described is a compound capable of altering the expression or activity of Keratin 14, TIE 1, Salioadhesin or Siglec in a cell. Peripheral blood mononuclear cell (PHMC) expressed Keratin 14, TIE 1, Salioadhesin or Siglec, and kits containing them from the present invention can be used in a diagnostic method, particularly as an indicator of angiogenesis or to determine presence of a tumour cell. The method of the invention is suitable to determine within a few days if a certain treatment against Kaposi's Sarcoma is successful. AB081851 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
                                                           WPI; 2002-590638/63
                                                                                                                   Petersohn D,
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28-SEP-2001; 2001EP-0203703
28-SEP-2001; 2001US-325722P
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Pred. No. 1.4e+02;
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In vitro identification of skin-expressed genes, useful for determining

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RESULT 231
ABV69138
ID ABV6913
XX ABV691
XX ABV691
XX ABV691
XX Human;
CW Human;
KW Jimmunc
KW PSORIA
OS HOMO E
XX UP1-JUI
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Best Local
The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression (M1) is useful for identifying genes involved in skin homeostasis; to determine skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression (M1) is useful for identifying genes involved in skin homeostasis; to determine skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma; ichthyosis; atopic dermatitis; ane; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag
                                                                                                                                                                    Disclosure; Page 217; 1345pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
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Pred. No. 1.4e+02;
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RESULT 232
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XX ABQ865
XX ABQ865
XX Human
XX Human;
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PN WO2002
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                                                                                                                            expression. (A) comprises protein or mRNAs or their fragments. (M1) is useful for: identifying markers of skin ageing and/or stress; determining skin ageing and/or stress; and identifying or determining the effects of pharmaceutical or cosmetic agents for control of skin ageing. The present sequence is one of a group of human skin ageing/stress related expressed sequence tags (ABQ86246-ABQ87680) of the invention.
                                                                                                 Sequence 11
                                                                                                                                                                                                                                                                                                                                                             Identifying genes involved in skin stress and ageing, useful e.g. screening for cosmetic or therapeutic agents, based on differentiagene expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-JAN-2001; 2001DE-1000121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-DEC-2001; 2001WO-EP15178
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; skin ageing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human skin stress/ageing related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-SEP-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma skin. The present sequence is that of a human expressed sequence (EST) of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (HENK ) HENKEL
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                                                                                                                                                                                                                                                                                                                               8; Page 50; 325pp; German
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                                   9;
                                                    Similarity
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 cceeeccaeec 13
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                                                                                                 BP; 0 A; 4 C; 5 G; 2 T; 0 other;
                                   Conservative
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                                                  39.0%;
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                                                    Score 7.8; DB 1;
Pred. No. 1.4e+02
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                                Mismatches
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RESULT 233

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ABZ72939/c
ID ABZ729
                                                                                              CC comprising the ribozyme or the polynucleotide; (d) an AAV vector (c) comprising the ribozyme or the polynucleotide; (d) an AAV vector (c) comprising the ribozyme or the polynucleotide. Also described is a method (c) comprising the amount of mRNA encoding a selected polypeptide in a composition described above, and for a time effective to specifically (c) cleave the mRNA in the cell. (I) has ophthalmological activity, and can be used in gene therapy. (I) can be used for treating a disease or composition of the mammalian eye, such as a retinal disease or retinal (disbetic) retinopathy, or (age-related) macular degeneration. (I) is also useful for manufacturing a medicament for creating the diseases mentioned above, including autosomal dominant contrating the disease sentioned above, including autosomal dominant creating the disease mentioned above, including autosomal dominant creating the severity, or ameliorating the symptoms of a condition, e.g. atrophic or pigmented lesions of the eye, company and can be condition. Agazazio a peripheral vision, or a reduction in central or peripheral vision, or a reduction in central condition.
  Query Match 39. Best Local Similarity 81. Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention describes a recombinant adeno-associated virus (AAV) vectored ribozyme composition (I). (I) comprises: (a) at least first ribozyme that specifically cleaves an mRNA encoding a protein, polypeptide, or peptide selected from the group of rod opsin, iNOS, RDS/peripherin, VEGFR1, VEGFR2, adenosine A-2B receptor, IGF-1, integ alpha 1, integrin alpha 3, integrin alpha 5, or integrin alpha V; (b) vector comprising a polynucleotide encoding the ribozyme, where the polynucleotide operably positioned downstream of at least a first promoter that directs expression of the polynucleotide in a selected mammalian cell transformed with the vector; (c) a viral particle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A recombinant adeno-associated virus-vectored ribozyme composition, useful for treating a disease or dysfunction of the mammalian eye e.g. retinal disease, e.g. diabetic retinopathy or age-related macular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hairpin ribozyme; hammerhead ribozyme; ribozyme; retinal disease; target; ophthalmological; gene therapy; eye; retinal dysfunction; AAV; diabetic retinopathy; macular degeneration; autosomal dominant retinitis; blood-retinal barrier dysfunction; adeno-associated virus; blindness; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-111880/10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rod opsin hammerhead ribozyme oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-APR-2003 (first entry
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                                                                                                                                    exemplification of the present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lewin AS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-MAY-2002; 2002WO-US13679.
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                                                                                          A; 4 C; 4 G; 1 U; 0 other;
                     39.0%;
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Pred. No. 1.7e+02;
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RESULT 234
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RESULT 235
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present sequence is a degenerate PCR primer used for amplifying the human cell cycle checkpoint protein, hohkl DNA. The cell cycle checkpoints are regulatory pathways that control the order and timing of cell cycle transitions, and ensure that critical events such as DNA replication and chromosome segregation are completed with high fidelity. The chkl protein controls cell cycle in response to DNA damage. It functions as kinase and phosphorylates the key regulators of Cdk tyrosine phosphorylation. The checkpoint gene sequences are used as probes for a portion of the chromosome associated with tumours and other malignancies, as well as growth and/or development deficiencies. The chkl proteins are useful for generating specific antibodies and for inhibiting growth of
                                                      AAS18424;
                                                                                                             AAS18424 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New Chkl proteins and gene sequences encoding the proteins useful probes for a portion of the chromosome associated with tumors and malignancies, growth and/or development deficiencies -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; cell cycle checkpoint; chk1; tumour; malignancy; cell growth inhibitor; development deficiency; PCR primer; DNA damage; kinase; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Elledge SJ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAD03853 standard;
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9; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 5 A; 4 C; 5 G; 3 T; 0 other;
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81.8%;
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Pred. No. 2.4e+02;
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12-MAR-2002

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Matches
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                  12-DEC-2001; 2001US-0020038
                                                                                                                                Human; checkpoint; chk1; anti-Chk1 antibody;
                                                                                                                                                        Human checkpoint gene Chk1 PCR primer #2.
                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 17 BP; 5 A; 4 C; 5 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New mammalian checkpoint protein and gene, for generating specific antibodies or for inhibiting the growth of cells, and for use as a probe for a portion of a chromosome associated with tumours or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to the isolation of human and mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; Column 24; 39pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                          PCR primer used to amplify DNA encoding human chk1 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                             Local Similarity
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                                                                                                                                                                                                                                                                                                 11
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                                                                                                                                                                                                                                                                                                                         GGCCAGGCCAA 16
                                                                                                                                                                                                                                                                                                  GGCCTGTCCAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           checkpoint pathway; inhibition of cell growth; tumour; growth deficiency; development deficiency; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR
                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             primer
                                                                                                                                                                                                                                                                                                                                                             39.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #2 used to
                                                                                                                                                                                                                                    ВP
                                                                                                                                                                                                                                                                                                                                                   0
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                                                                                                                                                                                                                                                                                                                                                            Pred.
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                                                                                                                                                                                                                                                                                                                                                            7.8; DB 1;
No. 2.4e+02;
                                                                                                                                tumour;
                                                                                                                                                                                                                                                                                                                                                                       Length 17;
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                                                                                                                                                                                                                                                                                                                                                Gaps
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RESULT 237
AAX29342
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KW Ayperp
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KW Hyperp
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XX Homo 
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Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention describes an anti-Chkl antibody capable of specifical binding to an antigenic determinant on the proteins encoded by a sequence comprising 476 (3 sequences), 479, 496 or 513 amino acids. A new method is used to produce the antibody, which is useful for detecting a Chkl protein that is associated with a tumour. This sequence represents a PCR primer used to isolate DNA encoding the
                                                     Example 4; Page 92; 190pp;
                                                                                                     New antisense oligonucleotides that detect and modulate expression of Jun N-terminal kinase proteins - useful f hyperproliferative diseases and inhibiting tumor growth and for modulating protein phosphorylation by these prot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; Page 13; 28pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New anti-Chkl antibody, that may be a monoclonal or polyclonal antibody, useful for detecting a Chkl protein that is associated with a
                                                                                                                                                                                                                                         WPI; 1999-181060/15
                                                                                                                                                                                                                                                                                                                                               (ISIS-)
                                                                                                                                                                                                                                                                                                                                                                                               13-AUG-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antisense oligonucleotide; Jun N-terminal kinase; JNK; hybridise; JNK1; JNK2; JNK3; cell cycle progression; phosphorylation; tumour: probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chemically modified sense control
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-JAN-2000; 2000US-0488364.
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9; Conserva
                                                                                                                                                                                                                                                                                                                                               ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGCCAGGCCAA 16
                                                                                                                                                                                                                                                                                         Gaarde WA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 5 A; 4 C; 5 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first
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                                                                                                                                                                                                                                                                                                                                                                                               97US-0910629
                                                                                                                                                                                                                                                                                                                                                                                                                                                  98WO-US16488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cycle progression; phosphorylation; tumour; probe;
/e disease; human; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA;
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Pred. No. 2.4e+02;
                                                                                                                                                                                                                                                                                         Monia BP,
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                                                                                                        tumor growth in an

    useful for treating
mor growth in animals,

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The invention relates to antisense oligonucleotides that detect and

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modulate the expression of Jun N-terminal kinase (JNK) proteins. The oligonucleotides specifically hybridize to a nucleic acid encoding a JNK1, JNK2 or JNK3 protein, and which modulate expression of these proteins. The oligonucleotides are useful for modulating JNK protein expression and cell cycle progression in cultured cells or animal cells. The oligonucleotides are also useful for modulating the phosphorylation of a protein that has been phosphorylated by a JNK protein, and the expression of a cellular protein that promotes one or more metastatic events. The oligonucleotides also form pharmaceutical compositions for treating animals with a hyperproliferative disease, and for inhihimitumor growth in an animal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oligonucleotides specifically hybridize to a nucleic acid encoding a JNKI, JNK2 or JNK3 protein, and which modulate expression of these proteins. The oligonucleotides are useful for modulating JNK protein expression and cell cycle progression in cultured cells or animal cells. The oligonucleotides are also useful for modulating the phosphorylation of a protein that has been phosphorylated by a JNK protein, and the expression of a cellular protein that promotes one or more metastatic events. The oligonucleotides also form pharmaceutical compositions for treating animals with a hyperproliferative disease, and for inhibiting
                                                                                                                                                                                                                                                                         New antisense oligonuclectides that detect and modulate the expression of Jun N-terminal kinase proteins - useful for treating hyperproliferative diseases and inhibiting tumor growth in animals, and for modulating protein phosphorylation by these proteins
                                                                                                                                                                                                                                                                                                                                                                        WPI; 1999-181060/15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antisense oligonucleotide; Jun N-terminal kinase; JNK; hybridise; JNK1; JNK2; JNK3; cell cycle progression; phosphorylation; tumour; probe; hyperproliferative disease; human; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JNK2-specific probe ISIS No: 12560.
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                                                                                                                                                                                                                                             Example 4; Page 87; 190pp; English.
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0; Mismatches
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Pred. No. 2.3e+02;
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RESULT 239
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Best Local (
                                                                                                                                                                                                                                                           induction of apoptosis. The present sequence is one such antisense oligonucleotide. The oligonucleotides of the present invention are useful for treating diseases or conditions with reduced apoptosis, e.g. cancer and cellular hyperproliferation. The oligonucleotides may also be used to increase the stimulation of apoptotic proteins, e.g. for treating Alzheimer's or Parkinson's disease, amylotrophic lateral sclerosis, retinitis, pigmentosa, epilepsy, myocardial infarction, stroke, obstructive jaundice, polycystic kidney and diabetes. The present sequence may have a phosphorothicate backbone.
                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to antisense oligonucloctides (AACG2844 CG3000, AAA96093-A96099 and AAAQ7793) that hybridise specifically to a nucleotide encoding a Jun N-terminal kinase (JN protein, resulting in decrease of JNK2 expression and leading to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Antisense; gene therapy; JNK2 protein; apoptosis; cancer; cellular hyperproliferation; Alzheimer's; Parkinson's disease; amylotrophic lateral sclerosis; retinitis; pigmentosa; epilepsy; myocardial infarction; stroke; obstructive jaundice; polycystic kidney;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 4 A; 7 C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel methods for reducing antisense oligonucleotides,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diabetes; Jun N-terminal kinase; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JNK antisense oligonucleotide ISIS #12560
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (ISIS-) ISIS PHARM INC
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14
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                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                  GTCCGGGCCAGGCC
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GGCCTGGCCCGGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGCCTGGCCCGGAC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTCCGGGCCAGGCC 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Dean
                                                                                                                                                                                                                BP; 4 A; 7 C; 7 G;
                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first
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M
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     160pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Monia BP,
                                                                                                                                 38.0%;
71.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   38.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 apoptosis comprising contacting cells with useful for treating apoptotic disorders,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ВP
                                                                                                     0;
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                                                                                                                Score 7.6; Ub .,
No. 2.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 7.6; DB 1;
Pred. No. 2.3e+02;
                                                                                                                                                                                                                2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nero PS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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                                                                                                                                                           Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (JNK2)
                                                                                                     Gaps
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RESULT 241
AAA48651/c
ID AAA486
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AC AAA486
XX
AC AAA486
XX
DT 20-SEP
XX
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                                                                                                                                                                                                                                                             RESULT 240
AAC62885
                                                                                                                                                                                                    Query Match
Best Local S
Matches 10
                                                                                                                                                                                                                                                                                    induction of apoptosis. The present sequence is one such antisense oligonucleotide. The oligonucleotides of the present invention are useful for treating diseases or conditions with reduced apoptosis, e.g. cancer and cellular hyperproliferation. The oligonucleotides may also be used to increase the stimulation of apoptotic proteins, e.g. for treating Alzheimer's or Parkinson's disease, amylotrophic lateral sclerosis, retinitis, pigmentosa, epilepsy, myocardial infarction, stroke, obstructive jaundice, polycystic kidney and diabetes. The present sequence may have a phosphorothioate backbone.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antisense; gene therapy; JNK2 protein; apoptosis; cancer; cellular hyperproliferation; Alzheimer's; Parkinson's disease; amylotrophic lateral sclerosis; retinitis; pigmentosa; epilepsy; myocardial infarction; stroke; obstructive jaundice; polycystic kidney; diabetes; Jun N-terminal kinase; ss.
               20-SEP-2000
                                           AAA48651;
                                                                     AAA48651 standard;
                                                                                                                                                                                                                                                          Sequence 20 BP; 2
                                                                                                                                                                                                                                                                                                                                                                                                                   specifically to a nucleotide encoding a Jun N-terminal kinase (JN protein, resulting in decrease of JNK2 expression and leading to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       e.g. cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel methods for reducing apoptosis comprising antisense oligonucleotides, useful for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mckay
                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to antisense oligonucleotides (AAC62844-C63000, AAA96093-A96099 and AAA07993) that hybridise
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 4; Page 135; 160pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2000-638427/61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                04-APR-2000; 2000WO-US08880
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAC62885;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAC62885 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                              7
                                                                                                                                                                1
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                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ISIS PHARM INC.
                                                                                                                                                                        GTCCGGGCCAGGCC 14
                                                                                                                                             GGCCTGGCCCGGAC 20
                                                                                                                                                                                                    Conservative
             (first entry)
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N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99US-0287796
                                                                                                                                                                                                                                                          A; 7 C; 7 G; 4 T; 0 other;
                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Monia
                                                                                                                                                                                                                38.0%;
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                                                                      ВP
                                                                                                                                                                                                    0,
                                                                                                                                                                                                                Score 7.6; DB 1;
Pred. No. 2.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nero
                                                                                                                                                                                                    Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaarde
                                                                                                                                                                                                                            Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    contacting cells with apoptotic disorders,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WA;
                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                    (JNK2)
                                                                                                                                                                                                   Gaps
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namely phosphorothicate linkages and 2 methoxyethoxy bases. Some C residues also had a 5 methyl modification. Inhibitors of the TNF alpha signalling molecules have antibacterial, immunosuppressive, antipsoriatic, antidiabetic, antithyroid, cytostatic, dermatological, antiallergic and antinflammatory activity. The antisense inhibitors may be useful for the treatment of sepsis, rheumatoid arthritis, inflammatory, immune disease, inflammatory bowel disease, allergic
                                                                                                                                                                                                                                                                                                                                                                                                                                                              A novel method for modulating cell adhesion molecule expression involves antisense inhibition of a tumour necrosis factor (TNF) all signalling molecule. In the method TNF alpha signalling molecules that the method the falpha signalling molecules are the method that alpha signalling molecules that the method the falpha signalling molecules that the method the falpha signalling molecules that the method the falpha signalling molecules are the method that the falpha signalling molecules are the method that the falpha signalling molecules are the method that the method th
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                                                                                                                                                                                                                                                                                                                                      present sequence is the JNK2 antisense oligonucleotide. The antisense oligonucleotides used in the method contained modifications,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Modulating cell adhesion molecule expression for treating immune or inflammatory diseases involves treating cell with specific inhibitor Tumour Necrosis Factor alpha signalling molecule
                                                                                       contact dermatitis, psoriasis, diabetes, Grave's
                                                                                                                                                                                                                                                                                                                                                                                                    antisense oligonucleotides. In addition an antisense oligonucleotide to the cell adhesion molecule E-selectin was also examined. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 36; Page 46; 100pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Monia BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-DEC-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Antisense oligonucleotide ISIS no.15354 to human JNK2 gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000-423367/36.
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                                                             and cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98US-0209668.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99WO-US28965
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/note= "All bases are 2'-methoxyethoxy,
additionally C bases are m5c"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mod_base= OTHER
/note= "All bases are 2'-methoxyethoxy
additionally C bases are m5c"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Phosphorothioate
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 internucleotide linkage"
                                                                                          disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  alpha
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Query Match
Best Local Similarity
Matches 10; Conserv

Conservative

o ;-

Mismatches

38.0%;

Score 7.6; Pred. No. 2.

DB 1; 2.3e+02;

Length 20

Indels

0

Gaps

0

Sequence

20

BP; 4 A;

7 C; 7 G; 2 T; 0 other;

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RESULT 242
AAH23754/c
ID AAH237
XX AAH237
XX AAH237
XX JNK1 a
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XX Synthe
FH Key
FT modifi
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XX W02001
XX IJ-MAY
XX I
RESULT 243
AAF99183/c
ID AAF991
XX
AC AAF991
XX
DT 12-JUN
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                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 10
  12-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to the use of oligonucleotides for treating cancer and for mimic or augment the effect of JNK antisense for cancer. The present sequence is one such
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Use of Jun Kinase antisense mRNA for treating cancer by administering vector comprising promoter operably linked to DNA sequence that encodes the antisense mRNA to patient diagnosed with cancer \,\cdot\,
                                              AAF99183;
                                                                                           AAF99183 standard;
                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JNK; jun kinase; antisense; cytostatic;
2'-O-methoxyethyl oligonucleotide; MOE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-NOV-2000; 2000WO-US30869.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17-MAY-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JNK1 antisense oligonucleotide, JNK2AS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAH23754 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (USSH ) US
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                                                                                                                                                                                                                                                            10;
                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                               GGCCTGGCCCGGAC 1
                                                                                                                                                                                                                                                            GTCCGGGCCAGGCC 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Page 41;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GECCTGECCCGGAC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEPT HEALTH & HUMAN SERVICES
                                                                                                                                                                                                                                                                                                                                                                                                      BP; 4 A;
                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gorospe
  (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99US-0165224.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         chimeric antisense oligonucleotide containing MOE/phoshopdiester residues flanking a 2'-deoxynucleotide/phosphorothioate region"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note= "This oligonucleotide is a 2'-O-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             75pp; English.
                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                              38.0%;
                                                                                                                                                                                                                                                                                                                                                                                                      7 C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ž
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          base= "OTHER"
                                                                                           20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Holbrook NJ;
                                                                                           ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8만.
                                                                                                                                                                                                                                                                                                                                                                                                      <u>ن</u>
                                                                                                                                                                                                                                                                                                        Score 7.6; DB Pred. No. 2.3e 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                      N
                                                                                                                                                                                                                                                                                                                                                                                                      T; 0
                                                                                                                                                                                                                                                                                                                                                                                                      other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cancer;
phosphorothioate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ISIS #12560)
                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of Jun Kinase (JNK) antisense for screening compounds that ense oligonucleotides treatment such JNK antisense
                                                                                                                                                                                                                                                                                                                                                  Length 20;
                                                                                                                                                                                                                                                                                                        Indels
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RESULT 244
ABS77827/c
ID ABS778
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AC ABS778
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AC ABS778
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DT 13-DEC
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DE Angiog
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Angiog
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Best Local S
Matches 10
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27-SEP-1999;
23-AUG-2000; 2
             Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth; tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular gla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae and/or orthomyxoviridae), antigens (e.g. toxoplasma, and/or parasitic, campylobacter, clostridium, Escherichia coli and/or tampylococcus), fungal antigens and/or parasitic antigens. The method is staphylococcus), fungal antigens and/or parasitic antigens. The method is also useful for preventing cancer, asthma, infectious disease, allergy or immune deficiency. The present sequence can also be used to redirect a Th2 to a Th1 immune response and to activate immune cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to a method for stimulating an immune response. The method comprises administering an immunostimulatory nucleic acid to a non-rodent subject in sufficient quantity to stimulate an
                                                                                               Angiogenesis inhibitory oligonucleotide #311.
                                                                                                                                  13-DEC-2002
                                                                                                                                                                                                ABS77827
                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    immune response. The present sequence is one such immunostimulatory nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich (py.rich) or thymidine (T) rich. The method is used to vaccinate subjects
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 101; Page 44; 338pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vaccinating against tumors, infectious diseases, allergies using immunostimulatory Py-rich and TG nucleic acids -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Krieg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-par immunostimulatory; tumour; viral infection; bacterial infection; fungal infection, parasitic infection; cancer; asthma; infectious disease; allergy; immune deficiency; phosphorothioate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Note:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-SEP-2000; 2000WO-US26383
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (IOWA ) UNIV IOWA RES FOUND (COLE-) COLEY PHARM GMBH.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       the
                                                                                                                                                                                                                                                                                   14 GGCCTGGCCCGGAC 1
                                                                                                                                                                                                                                                                                                                 1 GTCCGGGCCAGGCC 14
                                                                                                                                                                                                                                                                                                                                                    10;
                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                      20
                                                                                                                                                                                                  standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   present sequence may have a phosphorothioate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Schetter C,
                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 4 A; 7 C; 7
                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000US-0227436
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99US-0156135.
                                                                                                                                                                                                  DNA;
                                                                                                                                                                                                                                                                                                                                                                38.0%;
71.4%;
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                                                                                                                                                                                                  ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          English
                                                                                                                                                                                                                                                                                                                                                                                                                  G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                   Score 7.6; I
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                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                     DB
                                                                                                                                                                                                                                                                                                                                                                   3e+02;
                                                                                                                                                                                                                                                                                                                                                                                 Length 20
                                                                                                                                                                                                                                                                                                                                                    Indels
                                                            growth;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       backbone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               anti-parasitic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            and
               glaucoma;
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RESULT 245
ABL39057/c
ID ABL390
XX ABL390
XX ABL390
XX Immuno
XX Immuno
XX Antibo
KW Antibo
KW Angiog
XX Synthe
XX Synthe
FH Key
FH Key
FH Key
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FT
XX W02001
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Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma and hypertrophic scars. The present sequence is an antiangiogenic nucleic acid of the invention.
 WO200197843-A2
                                                                                                                               Synthetic
                                                                                                                                                            Antibody-induced cell lysis; cancer; immunostimulatory; angiogenesis; metastasis; cytostatic; phosphorothioate k
                                                                                                                                                                                                              Immunostimulatory nucleic acid SEQ ID NO: 463
                                                                                                                                                                                                                                                16-APR-2002
                                                                                                                                                                                                                                                                                ABL39057;
                                                                                                                                                                                                                                                                                                              ABL39057 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Inhibiting angiogenesis in a subject, involves administering one antiangiogenic nucleic acid molecule to the subject -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-DEC-2001; 2001WO-US48458.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        myocardial angiogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint; angiofibroma; wound granulation; intestinal adhesion; atherosclerosis; scleroderma; hypertrophic scar.
                                                                             modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to inhibiting angiogenesis in a subject,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-566690/60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-DEC-2000; 2000US-25534P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200253141-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (COLE-) COLEY PHARM GROUP INC
                                                                                                                                                                                                                                                                                                                                                                                             14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                            GTCCGGGCCAGGCC 14
                                                                                                                                                                                                                                                                                                                                                                                             GGCCTGGCCCGGAC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 4 A; 7 C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                             (first entry)
                                                                                  1..20
                                                                                              Location/Qualifiers
                                                /*tag= a
/mod_base= OTHER
                              note= "phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                276pp;
                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         38.0%;
                                                                                                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  English.
                                                                                                                                                                                                                                                                                                              ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 7.6; DB 1;
Pred. No. 2.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 20,
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                              CD20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  comprising
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RESULT 246
AAX54706/c
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Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies. The methods are useful for treating or preventing cancer such as basal cell carcinoma, bladder cancer, bone cancer, brain and central nervous system (CNS) cancer, breast cancer, cervical cancer, colon and rectum cancer, connective tissue cancer, cesophageal cancer, eye cancer, kidney cancer, larynx cancer, leukaemia, liver cancer, ing cancer, Hodgkin's lymphoma, non-Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian cancer, stomach cancer, testicular cancer, rhabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, rhabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, rhabdomyosarcoma, skin
                                                                                                                                   chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma; colon cancer; breast cancer; lung cancer; pancreatic cancer; hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
                                                                                                                                                                                                                                      impaired respiration; inflammation; lung disease;
pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                                                                                                                                                                                                                                                                              Human fibronectin antisense oligonucleotide fragment
                                                                                                                                                                                                                                                                                                                                                 05-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Treating or preventing cancer, such as basal cell carcinoma, comprises administering immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies to a subject having or at risk of
                                                  WO9913886-A1
                                                                                                                     prostate cancer;
                                                                                                                                                                                       pulmonary hypertension; pulmonary vasoconstriction;
                                                                                                                                                                                                      acute asthma; allergy; asthma; impeded respiration;
respiratory distress syndrome; pain; cystic fibrosis;
                                                                                                                                                                                                                                                                            Antisense oligonucleotide; multiple target; antisense treatment;
                                                                                                                                                                                                                                                                                                                                                                                                                     AAX54706 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                present sequence is an immunostimulat
the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 212; 312pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              developing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Weiner G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-JUN-2000; 2000US-213346P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTCCGGGCCAGGCC 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGCCTGGCCCGGAC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP; 4 A; 7 C; 7 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                 (first
                                                                                                                     88
                                                                                                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                                                                 entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               38.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           . 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  immunostimulatory oligonucleotide described
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                                                                                                                                                                                                                                                                                                                                                                                                                     ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 7.6; DB 1;
Pred. No. 2.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                      emphysema
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
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RESULT 247
AAF20275/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 8
                                                                                                                                respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection; chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                                                                         Low adenosine antisense oligonucleotide; phosphorothicate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                         Human fibronectin polynucleotide fragment #1842.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAF20275;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The specification describes antisense oligonucleotides (AAX52869-X55271) directed against at least 2 mRNAs selected from target genes, coding and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 55; 120pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New antisense oligonucleotides used in treatment of, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-229400/19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-JUN-1998;
17-SEP-1997;
                       WO200062736-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAF20275 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (UYEC-) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
8; Conserv
                                                                                                                      88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                               (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98US-0093972.
97US-0059160.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98WO-US19419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                               entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             37.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5 G; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 7.4; DB 1;
Pred. No. 5.2e+02;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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condition selected from pulmonary obstruction, employees or condition, employees, antibody receptors, cytokines and chemokines, endogenously produced specific and non-specific enzymes, binding proteins, adhesion molecules and their receptors, cytokine and chemokine receptors, adenosine receptors, bradykinin receptors, cytokine and chemokine receptors, adenosine receptors, bradykinin receptors, cytokine and chemokine receptors, adenosine receptors, bradykinin receptors, central nervous system peptide reseptors, containing proteins and men-nervous system peptide crasmitters, defensins, growth factors, vasoactive peptides and receptors, binding proteins and malignancy associated proteins. The antisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction and/or lung inflammation, allergy(ies) and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or surfactant hypoproduction which are associated with a disease or condition selected from pulmonary vasoconstriction, inflammation, callergies, asthma, impeded respiration, respiratory distress syndrome (RDS), pain, cystic fibrosis (CF), allergies relations, bronchitis, pulmonary transplantation rejection, pulmonary infections, bronchitis, and/or cancer. AAF18434 to AAF21543 represent human polynucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              expression and or activity of target polypeptides associated with lung/respiratory disorders and malignancies, such as stimulating an activating peptide factors and transmitters, transcription factors,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic, immunosuppressive, antiasthmatic, hypotensive and cytostatic activities
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Low adenosine (A) content antisense oligonucleotides which trigger adenosine receptors during metabolism, useful e.g. cancers and respiratory obstructions -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (UYEC-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         immunosuppressive, antiasthmatic, hypotensive and cytostatic activities The antisense oligonucleotides and (I) can be used to down-regulate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 14; Page 220; 1592pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-679539/66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24-MAR-2000; 2000WO-US08020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-OCT-2000
                                                                     fragments and antisense oligonucleotides used in the exemplification of
                                              present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             UNIV
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J W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99US-0127958
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     describes low adenosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (A) content antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               do not
for treating
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Query Match Best Local Matches Similarity 8; Conserv Conservative 88.9%; 37.0%; <u>0</u> Score 7.4; Pred. No. 5. Mismatches DB 1; 2e+02;

Sequence 9 BP; 0 A; 4 C; 5

G; 0 U; 0 other;

Length Indels

0,:

Gaps

0

밁 S ø 1 GTCCGGGCC GCCCGGGCC 9

AAA34153/c
ID AAA341
XX
AC AAA341
XX
DT 28-JUL
XX
DE Human
XX
KW Human;
KW phosph
KW allerg RESULT 248 28-JUL-2000 AAA34153 standard; DNA; (first entry) 9 ВÞ

Human adenosine receptor related polynucleotide SEQ ID NO:1842

Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothioate; impaired respiration; inflammation; allergy; allergic disease; bronchoconstriction; inhibitor; antiinflammatory;

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RESULT 249
ABQ71850
ID ABQ718
                                                                                                                                                                                                                         Query Match
Best Local Similarity
Thes 8; Conserv
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                                                                                                                                                                                                                                                                                                                                                             The present invention describes a new composition comprising an CC antisense oligonucleotide (ON) with low adenosine (up to 15%), which CC targets nucleic acids involved in bronchoconstriction, allergies, and/or CC inflammation. The ON can have antiinflammatory, antiallergie, and cantiasthmatic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, comparised airways, including lung disease and diseases whose secondary CC effects afflict the lungs of a subject. They can be used for treating e.g. is schaemic conditions, pulmonary vasconstriction, allergies, constitution, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive CC pulmonary disease (COPD), and cancers such as leukaemias, lymphomas, carcinomas, and cancers which may metastasise to the lungs, including breast and prostate cancer. The reduction of the adenosine content of the ONs reduces side effects. The A-containing ONs break down with the CC bronchoconstriction and inflammation. AAA32313 to AAA35312 represent the nucleotide sequences given in the sequence listing from the present the concleotide sequences given in the sequence 11sting from the present convention, which correspond to SEQ ID NO:1 to 2815, and then the last CC invention. N.B. Sequences given in the disclosure of the present CC invention do not match up with their corresponding SEQ ID NO: BEQUENCES.
 28-AUG-2002
                                      ABQ71850;
                                                                       ABQ71850 standard; DNA; 9 BP
                                                                                                                                                                                                                                                                                                                    Sequence 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma; respiratory distress syndrome; pain; cytetic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 495; 1343pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nусе JW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-AUG-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200009525-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000-205971/18
                                                                                                                                                                                                                                                                                                                                                       in the sequence listing.
                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VIND
                                                                                                                                                                                                        GTCCGGGCC 9
                                                                                                                                                                                                                                                                                                                  BP;
                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EAST CAROLINA
(first entry)
                                                                                                                                                                                                                                                                                                                    0 A;
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                                                                                                                                                                                                                                                                                                                    4 C;
                                                                                                                                                                                                                                                            37.0%;
                                                                                                                                                                                                                                                                                                                5 G;
                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                         Score 7.4; DB 1;
Pred. No. 5.2e+02;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                  0 U;
                                                                                                                                                                                                                                                                                                                    0 other;
                                                                                                                                                                                                                                                                            Length 9;
                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                           Gaps
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ABQ71851
ID ABQ
XX
AC ABQ
XX
DT 28-,
XX
DE Zin
XX

28-AUG-2002

(first entry)

Zinc finger protein related oligonucleotide

target

QEQ

ID NO:2149

B

۲

GGGGCAGGC 9

RESULT 250

ABQ71851 standard;

DNA; 9 BP

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5
                                                                                                               Query Match
Best Local S
Matches
                                                                                                                                                                                                                                                                           (3) designing (M) (I) involves selecting the F1 zinc finger such that it binds to the S1 target subsite, selecting the F2 zinc finger such that it binds to the S2 target subsite, and selecting the F3 zinc finger such that it binds to the S3 target subsite, thus designing (I) that binds to a target site. (I) is useful for recognition of triplet target subsites having the nucleotide G in the 5 most position of the subsite. (I) is useful in studying gene function, and for human therapeutics and plant engineering. (I), (II) or (III) is useful in therapeutic methods to modulate the expression of a target region within
                                                                                                                                            a subject, in diagnostic methods for sequence specific detection of target nucleic acid in a sample, and in assays to determined the phenotype and function of gene expression. (I) has improved affinity and specificity for their target sequences, as well as enhanced biological activity. AB071213 to AB077214 and ABP48191 to ABP51230 represent DNA target sequences and zinc finger peptides which are givin the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention describes a zinc finger protein (I) that binds to a target site, comprising a first (F1), a second (F2), and a third (F3) zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the target site comprises, in 3'-5' direction, a first (S1), a second (S2), and a third (S3) target subsite. Also described are: (1) a polypeptide (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and (S3) designing (M) (I) involves selecting the F1 zinc finger such that
                                                                                                             Sequence 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New zinc finger protein that binds to target site, useful in studying gene function and for human therapeutics and plant engineering, comprises first, second and third zinc fingers, ordered from N- to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 56; 81pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C-terminus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Liu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-NOV-2000; 2000US-0716637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-NOV-2001; 2001WO-US43438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-MAY-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Zinc finger protein; ZFP; DNA binding protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Zinc finger protein related oligonucleotide target SEQ ID NO:2148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-500284/53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (SANG-)
5 GGGCCAGGC 13
                                      Similarity
8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SANGAMO BIOSCIENCES INC
                                                                                                             BP; 1
                                      Conservative
                                                                                                             ₽,
                                                                                                               N
                                                     37.0%;
88.9%;
                                                                                                               C,
                                                                                                               σ
                                                                                                               <u>ი</u>
                                    Score 7.4; DB Pred. No. 5.2e 0; Mismatches
                                      0,
                                                                                                               0
                                                                                                               <u>;</u>
                                                                                                               0
                                                                                                               other;
                                                                           DB
                                                       2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             zinc finger;
                                                                       Length 9;
                                      Indels
                                      0
                                      Gaps
                                                                                                                                                                   given
                                      0
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RESULT 251
AAZ82328
ID AAZ823
XX AAZ823
AC AAZ823
XX O7-APF
XX O7-APF
XX Humann
KW Humann
KW antime
                                                                                                                                                                                                                                                                                                                                                                                                                                  S
                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention describes a zinc finger protein (I) that binds to C2 a target site, comprising a first (FI), a second (F2), and a third (F3) C2 zinc finger, ordered FI, F2, F3 from N-terminus to C2-terminus, where the C3 target site comprises, in 3'-5' direction, a first (S1), a second (S2), and a third (S3) target subsite. Also described are: (1) a polypeptide (II) comprising (I); (2) a polymucleotide (III) encoding (I) or (II); and (C2) and a third (S3) target subsite, selecting the F1 zinc finger such that it binds to the S2 target subsite, and selecting the F3 zinc finger such that it binds to the S3 target subsite, and selecting the F3 zinc finger such that it binds to the S3 target subsite, and selecting the F3 zinc (C3) that binds to a target site. (I) is useful for recognition of triplet target subsites having the nucleotide G1 in the 5'-most position of the Subsite. (I) is useful in studying gene function, and for human tharget subsite in diagnostic methods for sequence specific detection of target nucleic acid in a sample, and in assays to determined the phenotype and function of gene expression. (I) has improved affinity and specificity for their target sequences, as well as enhanced contact the experience of the present DNA target sequences and zinc finger peptides which are given in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 8
 Human; metastatic breast tumour tissue; breast cancer; tag; primer; non-metastatic breast tumour tissue; gene therapy; anticancer; antimetastatic; vaccine; diagnosis; ss.
                                                                            Metastatic
                                                                                                                 07-APR-2000
                                                                                                                                                     AAZ82328
                                                                                                                                                                                      AAZ82328 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 9 BP; 1 A; 2 C; 6 G; 0 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New zinc finger protein that binds to target site, useful in studying gene function and for human therapeutics and plant engineering, comprises first, second and third zinc fingers, ordered from N- to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Liu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; Page 56; 81pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-NOV-2000; 2000US-0716637.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Zinc finger protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (SANG-) SANGAMO BIOSCIENCES INC
                                                                                                                                                                                                                                                                                    μ.
                                                                                                                                                                                                                                                                                                                    v
                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                           œ
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                                                                                                                                                                                                                                                                                  GGGCCAGGC
                                                                                                                                                                                                                                                                                                                      GGGCCAGGC 13
                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                               (first entry)
                                                                      tumour cell upregulated transcript tag #1562
                                                                                                                                                                                        DNA;
                                                                                                                                                                                                                                                                                                                                                                            88.98;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZFP; DNA binding protein; zinc finger;
                                                                                                                                                                                                                                                                                                                                                                                           37.0%;
                                                                                                                                                                                        10
                                                                                                                                                                                        ВP
                                                                                                                                                                                                                                                                                                                                                         0,
                                                                                                                                                                                                                                                                                                                                                     Score 7.4; DB 1; Length Pred. No. 5.2e+02; 0; Mismatches 1; Indel
                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                         0
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SAGE tag; serial analysis of gene expression; antigen-presenting cell;
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RESULT 252
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Best Local S
Matches 8
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19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines; for diagnosing breast cancer and for ratsing specific antibodies (Ab). Ab are used to detect the polypeptides can be used to expand and isolate populations of educated, antitien specific immune affecter of the compount of these lised for immune
                           Human dendritic cell SAGE tag, SEQ ID NO:405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83342 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis,
                                                                                          AAZ77977
                                                           10-APR-2000
                                                                                                                       AAZ77977 standard; DNA; 10
                                                                                                                                                                                                                                                                                                                           Sequence 10
                                                                                                                                                                                                                                                                                                                                                         adoptive immunotherapy.
                                                                                                                                                                                                                                                                                                                                                                      to expand and isolate populations of educated effecter cells, e.g. cytotoxic T lymphocytes,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAZ80767 to AAZ83941 represent tags correspondir transcripts that are preferentially transcribed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; Page 100; 219pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   prevention and treatment of cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (GENZ )
(ROBE/)
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8; Conser
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                                                                                                                                                                                                                                 GGCCAGGCC 14
                                                                                                                                                                                                                                                                                                                           BP; 0 A; 4 C; 4 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                 Conservative
                                                           (first entry)
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98US-0090039.
98US-0090040.
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88.9%;
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Pred. No. 1.4e+02;
Pred. No. 1.4e+02;
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                                                                                                                                                                                                                                                                                            Length 10;
                                                                                                                                                                                                                                                                                                                                                                          these
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                                                                                                                                                                                                                                                               Gaps
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with monocytes. Some of the transcripts correspond to known genes or C ESTs (expressed sequence tags) which were previously unknown to be preferentially or differentially expressed in dendritic cells, while cher transcripts correspond to novel genes. Antigen-presenting cell (APC)-associated costimulatory factors play an important role in the activation of the cytotoxic immune response, particularly against tumour cells. Tumour antigen presentation via the MHC (major histocompatibility complex) and subsequent recognition by T-cell receptors is alone in sufficient to activate a robust cytotoxic immune response that can lyse the tumour cells, immunostimulatory cofactors also being required for efficient activation of cytotoxic Tlymphocytes (CTLs). Nucleic acid sequences identified using the SAGE tags have several potential uses. They may be used in vaccines to induce an immune response, particularly against a tumour antigen; to modulate the genotype of an APC; to screen
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19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
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19-JUN-1998;
19-JUN-1998;
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19-JUN-1998;
19-JUN-1998;
                                                                                                                                                                                                       Sequences AAZ77573-Z79709 represent SAGE (serial analysis of gene expression) tags used to identify mRNA transcripts encoding immunostimulatory cofactor proteins which are preferentially or differentially expressed in monocyte-derived dendritic cells compared
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APC; monocyte-derived dendritic cell; differential gene expression; immunostimulatory cofactor; costimulatory factor; CTL; cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19-JUN
                                                                                                                                                                                                                                                                                                                        Isolated polynucleotides differentially expressed in
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19-JUN-1998
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19-JUN-1998
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1-1998;
1-1998;
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                                                                                                                                                                                                                                                                                                          useful in gene vaccines against cancer
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                                                                                                                                                                                                                                                                                                                                                                                                            GENZYME CORI
ROBERTS B L
SHANKARA S.
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                                                                                                                                                                                                                                                                               Page 76; 130pp;
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98US-0089953

98US-0089997

98US-0089993

98US-0089993

98US-0089993

98US-0089993

98US-0090035

98US-0090035

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98US-0090043

98US-0090045

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98US-0090071
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AAZ84966
ID AAZ8
XX AAZ8
AC AAZ8
XX AAZ8
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AC AAZ
CC C AAZ
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Best Local S
Matches
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19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
  AAZ80767 to AAZ83941 represent tags transcripts that are preferentially tumour tissue (i.e. are upregulated AAZ83942 to AAZ86677 represent tags that are preferentially transcribed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        non-metastatic breast tumour tissue; gene therapy; anticancer; antimetastatic; vaccine; diagnosis; ss.
                                                                                                                          Claim
                                                                                                                                                             Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer -
                                                                                                                                                                                                                                                                                                                                                (GENZ )
(ROBE/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Metastatic breast tumour cell downregulated transcript tag
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ROBERTS E
SHANKARA
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8; Conserv
                                                                                                                        Page 171;
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98US-0089997.
98US-0090039.
98US-0090040.
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B L.
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                                                                                                                          219pp; English.
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Pred. No. 1.4e+02;
corresponding to distinct transcribed in the metastatic breast in metastatic breast tumour cells). corresponding to distinct transcripts in the primary or non-metastatic
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RESULT 254
AAH76334
AAH76334
AC AAH763
XX AAH763
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XX Z-MAH763
AC AAH763
XX Z-MAH763
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Best Local S
Matches 8
                              The invention provides a male tissue-preferred regulatory region (I) comprising nucleotide sequences essential for initiating transcription of the MS45 gene. A method of mediating male fertility in a plant is provided that involves introducing an expression vector comprising a promoter operably linked to (I) into a plant where the exogenous gene impacts male fertility of the plant and (I) controls expression of the exogenous gene. A method of producing hybrid sedds is also provided. Sequences AAH76341-355 represent a series of 5 deletions in the MS45 promoter region, used for determining the essential region of MS45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines, for diagnosing breast cancer and for raising useful in vaccines; for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune effecter cells, e.g. cytotoxic T lymphocytes, and these used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A male tissue-preferred regulatory region comprising nuclectide sequences essential for initiating transcription of the MS45 geuences essential for initiating transcription of the MS45 geuences essential for mediating fertility in a male plant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Albertsen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification
                                                                                                                                                                                                                                                                                                                                                                                                           Example
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 mays Ms45

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (PION-) PIONEER HI-BRED INT INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200160997-A2
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8; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                        Fig 8; 50pp; English.
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88.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           male
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               plant
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                                                                                                                                                Query Match
Best Local S
Matches
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Matches 8
                                                                                                                                                                                                                                                                                                                                                                                                 The invention provides a male tissue-preferred regulatory region (I) comprising nucleotide sequences essential for initiating transcription of the MS45 gene. A method of mediating male fertility in a plant is provided that involves introducing an expression vector comprising a promoter operably linked to (I) into a plant where the exogenous gene impacts male fertility of the plant and (I) controls expression of the exogenous gene. A method of producing hybrid seeds is also provided. Sequences AAH76341-355 represent a series of 5' deletions in the MS45 promoter region, used for determining the essential region of MS45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A male tissue-preferred regulatory region comprising nucleotide sequences essential for initiating transcription of the MS45 generates the sequences of the MS45 generates and the sequences of the MS45 generates are sequenced as a sequence of the 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Z. mays Ms45 promoter deletion mutant fragment LS05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-OCT-2001
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8; Conserv
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8; Conserv
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88.9%;
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                                                                                                                                                                               Score 7.4; DB 1;
Pred. No. 1.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 7.4; DB 1; Pred. No. 1.4e+02; Mismatches
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                                                                                                                                                                                                                  Length 10;
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RESULT 257
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Best Local S
Matches 8
                                                                                                               Human; single nucleotide polymorphism; SNP; RANGAP1; haplotyping chromosome 22q13.2-q13.31; Ran GTPase activating protein 1; geno
                                                                                                                                                              Oligonucleotide
                                                                                                                                                                                            08-MAY-2002
                                                                                                                                                                                                                        AAS19876;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 provided that involves introducing an expression vector comprising a promoter operably linked to (I) into a plant where the exogenous gene impacts male fertility of the plant and (I) controls expression of the exogenous gene. A method of producing hybrid seeds is also provided. Sequences AAH76341-355 represent a series of 5' deletions in the Ms45 promoter region, used for determining the essential region of MS45
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                                            WO200179240-A2
                                                                       Homo sapiens
                                                                                                                                                                                                                                                   AAS19876 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 10 BP; 0
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8; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             promoter;
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                                                                                                                                                           #56 to detect human RANGAP1 gene polymorphisms.
                                                                                                                                                                                                                                                                                                                                                                                                                                           A; 5 C; 5
                                                                                                     cell
                                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                         entry)
                                                                                                                                                                                                                                                                                                                                                                                               37.0%;
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                                                                                                    cycle associated
                                                                                                                                                                                                                                                   10
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                                                                                                                                                                                                                                                   ВP
                                                                                                                                                                                                                                                                                                                                                                                                 Score 7.4; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                           G; 0 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Huffman
                                                                                                 disorder; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                               .4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ဂ
                                                                                                                                                                                                                                                                                                                                                                                                           Length 10;
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                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the MS45 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           fertility;
                                                                                                                genotyping;
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RESULT 258
AAH64374
ID AAH643
AX AAH643
AX AAH643
AX AAH643
AX Human
XX Human
XX Human
XX Human
XX Homo
XX WO20(
PN WO20(
XX HOTO
PN WO20(
YX WO20(
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (SNPs) in the human Ran GTPase activating protein 1 (RANGAP1) gene located on chromosome 22q13.2-q13.31, and methods for haplotyping and/or genotyping the RANGAP1 gene. The methods of the invention make use of allele-specific oligonucleotides (ASOs) as probes and primers and/or primer-extension oligonucleotides for detecting the RANGAP1 gene polymorphisms. The polynucleotides and screened compounds are useful for treatment of diseases associated with RANGAP1 activity, such as cancer and other disorders associated with an irregular cell cycle.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human ubiquitously expressed transcriptome sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Genotyping human Ran GTPase activating protein 1 gene of individual for determining haplotype of individual, involves determining identity of nucleotide pair at specific polymorphic sites for two copies of the gene.
                                                                                                                                                                                                          Velculescu VE,
                                                                                                                                                                                                                                                                                                                           24-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                    21-NOV-2000; 2000WO-US31922
                                                                                                                                                                                                                                                                                                                                                                                                                                            31-MAY-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAH64374 standard; cDNA; 10 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 10 BP; 3 A; 3 C; 4 G; 0 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAS19821-AAS19898 represent primer-extension oligonucleotides for detecting human RANGAP1 gene polymorphisms.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 17; Page 16; 148pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-075068/10
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                                                                                                                                                                                                                                                                   (UYJO ) UNIV JOHNS HOPKINS
                                                                                                                                                    2001-367706/38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             transcriptome;
diagnosis; cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ø
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8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Choi JY, Koshy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                        99US-0448480
                                                                                                                                                                                                       Vogelstein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cell specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               37.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     relates to novel single nucleotide polymorphisms an GTPase activating protein 1 (RANGAP1) gene
                                                                                                                                                                                                          B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           expression pattern; cancer; drug screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 7.4; Db 1,
                                                                                                                                                                                                          Kinzler
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gene expression;
                                                                                                                                                                                                          至
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0,
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New isolated polynucleotides, useful type, such as cancer cell, comprises particular cell types -

comprises

for identifying specific transcriptomes expressed

cell in

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RESULT 259
AAH64375
ID AAH643
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Best Local S
Matches 8
                                                  Matches
                                                                       Query Match
Best Local Similarity
                                                                                                                                                                                          The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce cancer specific gene expression, standardise expression and restore the function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.
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                                                                                                                                                Sequence 10 BP; 1 A; 4 C; 3 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  type, such as cancer cell, particular cell types -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New isolated polynucleotides, useful for identifying specific type, such as cancer cell, comprises transcriptomes expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-367706/38.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200138577-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; transcriptome; gene expression pattern; cancer; drug screening; cancer diagnosis; cell specific gene expression; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human ubiquitously expressed transcriptome sequence SEQ ID NO: 1215.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAH64375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAH64375 standard; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 10 BP; 1 A; 4 C; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cancer specific gene expression, standardise expression and restore t function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (UYJO ) UNIV JOHNS HOPKINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7 GCCAGGCCA 15
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8; Conserv
GCCAGGCCA 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCCTGGCCA 9
                                                                                                                                                                                                                                                                                                                                                                                                                                Page 67; 94pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 67;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99US-0448480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Vogelstein B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            94pp;
                                                                         37.0%;
88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   37.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 7.4; DB 1;
Pred. No. 1.4e+02;
0; Mismatches 1
                                                                       Score 7.4; DB 1;
Pred. No. 1.4e+02;
                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kinzler KW;
                                                                                            Length 10;
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                                            Indels
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in
                                            Gaps
                                            0;
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RESULT 260
AAH32856
ID AAH328
XX AAH328
XX LPS ac
XX Human;
KW Expres
XX JP2001
XX JP2001
XX JP2001
XX JP2001
XX JP2001
XX JP3001
XX CLAAF
PF 28-APF
XX WPI; 2
XX UASA-
XX CLAAF
PF CRACE
CC The pi
CC The pi
CC The pi
CC Tepre;

   ARESULT 261
ABK95840/c
ID ABK958
XX ABK958
XX ABK958
XX ABK958
XX OAUTE
XX Solute
XX Solute
XX Solutam
KW amino
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Best Local S
Matches 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention describes an lipopolysaccharide (LPS) activated human monocyte expression gene group consisting of the high-ranking 50 genes of the highest expression among the genes expressed by human monocyte stimulated by LPS in which the cDNA of each gene has the base sequence of (AAH32628 to AAH32677) continuous to the base sequence 5'-CATG-3' nearest to the polyA region. The gene group is useful for the development of new means for the diagnosis and the treatment of various human diseases in which human monocyte plays an important role. AAH32628 to AAH32943 represent specifically claimed LPS activated human monocyte expression gene cDNA tags from the present invention. AAH33944 represents an LPS activated human monocyte expression gene cDNA tags from the present invention. AAH33944
                                 Solute carrier family 1; SLC1A4; haplotyping; human; cancer; primer; glutamate/neutral amino acid transporter; neurological disease; PCR;
amino acid transporter disorder; single nucleotide polymorphism; SNP
                                                                                                                              Solute Carrier Family 1 (SLC1A4)
                                                                                                                                                                                             24-SEP-2002
                                                                                                                                                                                                                                                                ABK95840
                                                                                                                                                                                                                                                                                                                            ABK95840 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 10 BP; 1 A; 4 C; 3 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        encoding AAB98009, which are given in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LPS activated human monocyte expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-304369/32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08-JUL-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; LPS; lipopolysaccharide; monocyte expression gene; tag; EST; expressed sequence tag; diagnosis; human disease; treatment; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LPS activated human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13-AUG-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7 GCCAGGCCA 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCCTGGCCA 9
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Pred. No. 1.4e+02;
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                                                                                                                              primer extension oligonucleotide #11.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    methods are useful for improving the efficiency and reliability of control steps in the discovery and development of drugs for treating diseases associated with SLC1A4 activity. The haplotyping method is also used by the pharmaceutical research scientist to validate SLC1A4 as a candidate target for treating a specific condition or disease predicted to be associated with SLC1A4 activity, e.g. cancer, neurological diseases and amino acid transporter disorders, and in the design of clinical trials for treating a specific condition of disease associated with SLC1A4 activity. The methods are also useful for screening compounds targeting SLC1A4. Anti-SLC1A4 antibody is useful in diagnostic, prognostic and therapeutic methods. ABK95761-ABK95877 represent SLC1A4 gene allele-specific oligonucleotides, primer extension oligonucleotides and related PCR primers used to identify single nucleotide polymorphisms (SNP) of the gene.
                                                                                                                                                                                                                                                                                                                                                                         Matches
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Best Local :
Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (glutamate/neutral amino acid transporter), member 4 (SLC1A4) isogenes (II) and an isolated polypeptide (III) comprising an amino acid sequence which is a polymorphic variant of a reference sequence for SLC1A4 protein. Also described are methods for: (1) haplotyping or genotyping SLC1A4 gene of an individual; (2) predicting a haplotype pair for SLC1A4 gene of an individual; (3) identifying an association between a trait and at least one haplotype or haplotype pair of SLC1A4 gene. (III) Is useful in screening for drugs targeting (III) that are useful for treating cancer, neurological diseases and amino acid transporter disorders. The
                                                                                Human skin
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Amino
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                                                                                                                                                            ABV65097;
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Acid Transporter), Member 4 isogenes, for improving efficiency
eliability in drug development for treating cancers -
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RESULT 263
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                                                                                                                                                                                                   Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
                                                                                                                                                                                                                                                                   Human skin EST 7197.
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                                              03-JAN-2001; 2001DE-1000127
                                                                             20-DEC-2001; 2001WO-EP15179
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                       The present invention relates to a hairpin or hammerhead ribozyme designed to cleave RNA encoding a cyclin or cell-cycle dependent other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.
                                                                                                                                                                                              New hairpin and hammerhead ribozyme RNA encoding a cyclin or cell-cycle
                                                                                                                         Disclosure; Page
                                                                                                                                                                                                                                                                                                                                                                                                                              04-DEC-1998;
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                                                                                                                                                                                                                                                                                                                          ďŖ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>Ω</u>
                                                                                                                         English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 7.4; DB 1;
Pred. No. 1.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gene therapy; vasotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                          Robbins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ~
                                                                                                                                                                                                   for inhibiting restenosis, cleaves dependent kinase other than CDK1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              scleroderma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
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o cleave RNA encoding a cyclin or c cell-cycle dependent kinases CDK1, tive examples of ribozyme recogniti

kinase

as psoriasis,

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                    skin or eye disease and scarring. The method involves administeri ribozyme (I) which cleaves RNA encoding a cytokine involved in inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle dependent kinase, growth factor or a reductase, or administering nucleic acid molecule (II) comprising a promoter operably linked nucleic acid segment encoding (I) (I) can have antipsoriatic, dermatological, cytostatic, antiseborrheic, antidiabetic, antisic ophthalmological, vulnerary, keratolytic and virucide activities.
cleaves RNA encoding cytokine involved in inflammation. (I) can be useful for treating proliferative skin diseases such as psoriasis, atopic dermatitis, actinic keratos:
                                                                                                                                                                                                                          Treating proliferative skin or eye diseases and scarring, ribozymes that cleave RNA encoding cytokines involved in matrix metalloproteinases, growth factors and cell-cycle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  proliferative disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytosta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAA82415 to AAA86787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells. The ribozyme is resistant to endonuclease activity and hence is efficient in restenosis treatment.
                                                                                                                                        The present invention skin or eye disease ar
                                                                                                                                                                                  Example 1;
                                                                                                                                                                                                                                                                                                                Robbins JM,
                                                                                                                                                                                                                                                                                                                                                                       26-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                26-OCT-2000; 2000WO-US29500
                                                                                                                                                                                                                                                                                                                                                                                                                               03-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sickle cell retinopathy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           antisickling; ophthalmological; keratolytic; gene therapy; viral wart; atopic dermatitis; actinic keratosis; squamous cell carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             recognition site; target;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cell-cycle dependent kinase cdk4 ribozyme binding site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAH58041;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;
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8; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              carcinoma; seborrheic wart;
                                                                                                                                                                                  Page 105; 408pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 1
                                                                                                                                                                                                                                                                                                               Tritz R;
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                                                                                                                                                                                                                                                                                                                                                                       99US-0161532
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88.9%;
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C;
                                                                                                                                         describes a method for treating nd scarring. The method involves
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ribozyme binding site; eye disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ВP
                                                                                                                                                                                  English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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No ·
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.4e+02;
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                                                                                                                                        a proliferative administering a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ
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                                                                                                                                                                                                                                         inflammation,
                                                                                                                                                                                                                             dependent
                                                      antisickling,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              vulnerary;
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                          be used
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RESULT 266
AAT109655/c
ID AAT1096
XX AAT1096
XX AAT1096
XX 25-MAR
DT 25-MAR
DT 25-JUN
DE 3'-pri
XX 1:Gharac
KW 1:Gharac
KW 1:Gharac
KW 23-NOV
XX 12-MAY
XX 1
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8888
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Best Local S
Matches 8
       Matches
                            Query Match
Best Local :
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                                                                                                                                                                                                                         The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which target human protein coding regions, together comprise a PCR primer kit with 1361 possible primer pairs. The kit is used in a new method for the characterisation of nucleic acid sequences obtd. from human biological samples, which comprises PCR amplification and indexing of the prods. w.r.t the primer pair that hybridised to its delineating subsequences. The method may be used in the identification, cloning
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Characterisation of nucleotide sequences using primer pairs - by amplification and indexing of amplification prods. w.r.t. primers used for genome mapping and disease diagnosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               characterisation; biological sample identification; cloning; analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3'-primer used for characterisation of human biological samples
                                                                                                      Sequence 8
                                                                                                                                                                                                 and analysis of genes, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 19; 72pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1996-010958/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3'-primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-MAR-2003
25-JUN-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-NOV-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lopeznieto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (BGHM ) BRIGHAM & WOMENS HOSPITAL
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                            Similarity
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8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             diagnosis; ss.
                                                                                                                                                       g
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGCCAGGCC 14
                                                                                                        B₽;
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                                                                                                                                                       25-MAR-2003
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  Conservative
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(first entry)
                                                                                                      0 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein coding region;
biological samples; PCH
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                                                                                                      3 C; 2 G; 3 T; 0 other;
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                          35.0%;
100.0%;
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                                                                                                                                                       correct
     0
                                                                                                                                                                                                    in genome mapping,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                    Score 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 7.4; DB 1;
Pred. No. 2.4e+02;
                            Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   invention.
     Mismatches
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                            .DB 1; Lei
o. 5.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            on; PCR primer kit;
PCR amplification; indexing
                                                                                                                                                       field.)
     0
                                                 Length 8;
                                                                                                                                                                                                         and disease
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     Indels
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Gaps
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RESULT 267
AATO96556/c
ID AATO96
XX AATO96
XX AATO96
XX 25-MAR
DT 25-MAR
DT 25-JUN
DE 3'-pri
XX identi
XX 
RESULT 268
AAT09366
ID AAT093
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AC AAT093
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AC AAT093
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                                                                                                                                                                                                                                                                                                                                          Query Match

Best Local Similarity

Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which target human protein codding regions, together comprise a PCR primer kit with 1361 possible primer pairs. The kit is used in a new method for the characterisation of nucleic acid sequences obtd. from human biological samples, which comprises PCR amplification and indexing on the prods. w.r. the primer pair that hybridised to its delineating subsequences. The method may be used in the identification, cloning
                                                      AAT09366
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 8
                                                                                                       AAT09366 standard; DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Characterisation of nucleotide sequences using primer pairs - by amplification and indexing of amplification prods. w.r.t. primers
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disease diagnosis; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  B₽;
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                                                                                                                                                                                                                                                                                                                                                Conservative
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RESULT 269
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Best Local :
                                                            disease
                                                                    5'-primer; human; protein coding region; PCR primer kit;
characterisation; biological samples; PCR amplification; indexing
identification; cloning; analysis; genes; genome mapping;
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                                                                                                                                                   25-MAR-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                          The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which target human protein coding regions, together comprise a PCR primer kit with 1361 possible primer pairs. The kit is used in a new method for the characterisation of nucleic acid sequences obtd. from human biological samples, which comprises PCR amplification and indexing of the prods. w.r.t the primer pair that hybridised to its delineating subsequences. The method may be used in the identification, cloning
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          WO9531574-A1
                                     Synthetic.
                                                                                               5'-primer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5'-primer; human; protein coding region; PCR primer kit; characterisation; biological samples; PCR amplification; identification; cloning; analysis; genes; genome mapping;
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21-JUN-1996
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o. 5.8e+02;
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Characterisation of nucleotide sequences using primer pairs -

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RESULT 271
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                          The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which target human protein coding regions, together comprise a PCR primer kit with 1361 possible primer pairs. The kit is used in a new method for the characterisation of nucleic acid sequences obtd. from human biological samples, which comprises PCR amplification and indexing of the prods. w.r. the primer pair that hybridised to its delineating subsequences. The method may be used in the identification, cloning
                                                                                                                                                                                                                                Disclosure; Page 19; 72pp; English.
                                                                                                                                                                                                                                                                                                       Characterisation of nucleotide sequences using primer pairs - by amplification and indexing of amplification prods. w.r.t. primers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3'-primer used for characterisation of human biological samples.
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25-JUN-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and analysis of genes, e.g. in genome mapping, and disease
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biological samples; PCR amplification;
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     in genome mapping,
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                                                                                                                                                                                                                                                           in plant biology, agriculture, human or veterinary medicine, reproduction, microbiology or environmental science, e.g. to study expression of nuclear receptors at different stages of tissue deve or after treatment with particular drugs. It is also used for DNA fingerprinting (to generate products useful for differential hybridisation), or, where a 3'-anchor primer is used, to isolate tight of the products of the products of the product of the products of the product of the product of the products of the product of the product
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention provides primers (AAX29501-X29579) for identifying sequences encoding structurally or functionally related proteins such as nuclear or G-protein coupled receptors, apoptosis-related or DNA repair/replication proteins. The identified sequences are broadly useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         apoptosis; DNA repair; DNA replication; plant biology; agriculture; human; veterinary medicine; reproduction; microbiology; hybridisation; environmental science; DNA fingerprinting: PCP primar.
                                                                                                                                                                            Sequence
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(Updated on 25-MAR-2003 to
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                                                                                                                                                                            other;
                                                                                                                                                                                                                                     coupled receptor genes
                                                                                          DB 1; Le
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .
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                                                                                                                  Length 8;
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                                                            Indels
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RESULT 273
AAX29558/c
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                                                                                                                                          RESULT 274
AAA80793
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                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                      reproduction, microbiology or environmental science, e.g. to study expression of nuclear receptors at different stages of tissue development or after treatment with particular drugs. It is also used for DNA fingerprinting (to generate products useful for differential hybridisation), or, where a 3'-anchor primer is used, to isolate the 3'-ends of mRNA sequences. Sequences AAX29526-X29583 represent claimed primers specific for human G-protein coupled receptor genes.
                                       A. thaliana primer walking octamer SEQ ID NO: 106.
                                                                                                                                                                                                                                                                                                                 Sequence 8 BP; 0 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                              nuclear or G-protein coupled receptors, apoptosis-related or DNA repair/replication proteins. The identified sequences are broadly useful in plant biology, agriculture, human or veterinary medicine,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention provides primers (AAX29501-X29679) for identifying sequences encoding structurally or functionally related proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Subset of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1999-205200/17.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleic acid amplification; nuclear receptor; G-protein coupled receptor; apoptosis; DNA repair; DNA replication; plant biology; agriculture; human; veterinary medicine; reproduction; microbiology; hybridisation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAX29558 standard; DNA; 8
         Primer walking; octamer; primer; DNA sequencing; PCR;
                                                                   24-NOV-2000
                                                                                                                            AAA80793 standard; DNA; 8 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         McClelland M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               04-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           environmental science; DNA fingerprinting; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Primer for human G-protein coupled receptor genes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21; Page 75; 92pp; English.
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                                                                                                                                                                                                 GGCCAGG 1
                                                                                                                                                                                                                             GGCCAGG 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 primers able to amplify group of related sequences
                                                                                                                                                                                                                                                           Conservative
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100.0%; pr/
...a 0;
                                                                   entry)
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21-MAY-1997;

15-APR-1996;

96US-0632782 97US-0859954

(UYHO-) UNIV HOUSTON (HARD/) HARDIN S H.

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Best Local S
Matches 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               molecule which comprises selecting a library primer from an octamer oligonucleotide library consisting of 48 8-bp sequences and corresponding complementary sequences, where the library primer is complementary to a known sequence adjacent to the unknown sequence or is complementary to a sequence in a known extension product. The method is useful for DNA nucleotide sequencing, in PCR, and in other processes which make use of primers. The octamers are used to identify coding sequences. Primer walking using the octamer libraries is advantageous over other sequencing methods because it does not require multiple cloning steps nor subsequent template preparations, and it is a directed and methodical approach. AAA80688-A81253 represent the octamer primers used in the primer walking method of the invention.
                                                                                                                                                                                                                A. thaliana primer walking octamer SEQ ID NO: 359
                                                                                                                                                                                                                                                                      AAA81046;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 8 BP; 4 A; 2 C; 2 G; 0 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and other primer processes oligonucleotides -
                                                                                                        04-JUL-2000
                                                                                                                                   US6083695-A
                                                                                                                                                            Arabidopsis thaliana
                                                                                                                                                                                    Primer walking; octamer; primer; DNA sequencing; PCR;
                                                                                                                                                                                                                                            24-NOV-2000
                                                                                                                                                                                                                                                                                               AAA81046 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention describes a novel method for sequencing an unknown DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 8; Column 77-78; 161pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequencing an unknown DNA molecule for the polymerase chain reaction and other primer processes comprises primer walking of octamer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Arabidopsis thaliana
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                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Le
o. 5.8e+02;
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RESULT 276
ADD22387/c
ID AAD223
XX ADD223
XX ADD223
XX Oligon
XX Cotton
XX Cotton
XX Cotton
XX Cotton
XX Uniden
XX Uniden
XX HOROMORE
PN WO2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              is complementary to a sequence in a known extension product. The method is useful for DNA nucleotide sequencing, in PCR, and in other processes which make use of primers. The octamers are used to identify coding sequences. Primer walking using the octamer libraries is advantageous over other sequencing methods because it does not require multiple cloning steps nor subsequent template preparations, and it is a directed and methodical approach. AAABO688-A81253 represent the octamer primers used in the primer walking method of the invention.
                                                                                                                         Modifying endogenous oil of cotton plants, to produce cotton seed with reduced palmitic and/or linoleic acid content, involves product rangenic plants containing a fatty acid biosynthesis gene in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequencing an unknown DNA molecule for the polymerase chain and other primer processes comprises primer walking of octam oligonucleotides -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cotton; delta9-desaturase; fatty acid delta12-desaturase; palmitic linoleic acid; stearic acid; oleic acid; transgenic plant;
                                                    Example 11; Page
                                                                                                                                                                                                                                          WPI; 2001-602932/68
                                                                                                                                                                                                                                                                                                                                                                                                    18-APR-2000; 2000US-198124P
                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-APR-2001; 2001WO-AU00436
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cotton seed oil; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                  COMMONWEALTH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 3 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Column 205-206; 161pp; English.
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                                                                                                                                                                                                                                                                                           Liu
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                RES
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                                                                                                                              s producing in a
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invention

relates

to a method for modifying the endogenous oil

of.

expression and

The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analyssic,

Claim 14;

Page 106; 1592pp; English

immunosuppressive, antiasthmatic, hypotensive and cytostatic activities The antisense oligonucleotides and (I) can be used to down-regulate the

activity of target polypeptides associated

down-regulate the ociated with

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RESULT 277
AAF20849/C
ID AAF208
XX AAF208
AC AAF208
XX Low ad
XW Low ad
XW Low ad
XW respir
XW respir
XW respir
XW cancer
XW cancer
XX Cancer
XX Cancer
XX Cancer
XX CACC
XX O6-APR
AC (NYCE)
AC (NYCE)
AC (YEC-PA (NYCE)
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Best Local S
Matches 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (NYCE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Low adenosine antisense oligonucleotide; phosphorothioate; allergy; human; aliway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cotton plant, to produce cotton seed oil. The method comprises producing a transgenic cotton plant having a gene construct which includes a fatty acid biosynthesis gene operably linked to a promoter sequence capable of conferring expression of the delta9-desaturase (delta9 stearpyl-ACP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24-MAR-2000; 2000WO-US08020
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                respiratory obstruction; pulmonary obstruction; impeded respiration;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-MAR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAF20849 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 8 BP; 0 A; 3 C; 5 G; 0 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                      Low adenosine (A) content antisense oligonucleotides which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human adenosine
                                                                                                                                                                                                                                                                                                                                                                                                                2000-679539/66.
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                                                                                                                                                                                                                                                                                                                           adenosine receptors during metabolism,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
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                                                                                                                                                                                                                                                                                            respiratory obstructions
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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                                                                                                                                                                                                                                                                                                                        useful e.g.
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RESULT 278
AAA34727/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local 9
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New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     phosphorothioate; impaired respiration; inflammation; allergy; allergic disease; bronchoconstriction; inhibitor; antiinflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                03-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200009525-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; adenosine receptor; low adenosine antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-JUL-2000
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                                                                                                                                                                        WPI; 2000-205971/18.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human adenosine receptor related polynucleotide SEQ ID NO:2416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAA34727;
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                                                                                                                                                                                                                                                                                                                                        (UYEC-) UNIV EAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity 7; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                98US-0095212
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100.0%; Pr/
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s; Pred. No. 5.2
0; Mismatches
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No. 5.2e+02;
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                                New zinc finger protein that binds to target site, useful in studying gene function and for human therapeutics and plant engineering, comprises first, second and third zinc fingers, ordered from N- to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antisense oligonucleotide (ON) with low adenosine (up to 15%), which targets nucleic acids involved in bronchoonstriction, allergies, and/or inflammation. The ON can have antiinflammatory, antiallergic, antiasthmatic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, eighpaired aliways, including lung diseases and diseases whose secondary effects afflict the lungs of a subject. They can be used for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Zinc finger
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                                                                                                                                                                                                                                                                                                                                                          (SANG-) SANGAMO BIOSCIENCES INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity nes 7; Conserv
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k; Pred. No. 5.2
0; Mismatches
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o. 5.2e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CC a target site, comprising a first (F1), a second (F2), and a third (F3) CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the CC target site comprises, in 3'.5' direction, a first (S1), a second (S2), CC and a third (S3) target subsite. Also described are: (1) a polypeptide (CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and CC (3) designing (M) (I) involves selecting the F1 zinc finger such that CC that it binds to the S1 target subsite, selecting the F2 zinc finger such that it binds to the S3 target subsite, and selecting the F3 zinc (CC that it binds to the S3 target subsite, and selecting the F3 zinc (I) that binds to the S3 target subsite, thus designing (I) (CC that binds to a target site. (I) is useful for recognition of triplet (CC subsite. (I) is useful in studying gene function, and for human (CC therapeutics and plant engineering. (I), (II) or (III) is useful in the S1 target subsite. (I) is useful in consider the expression of a target region within (CC target nucleic acid in a sample, and in assays to determined the (CC phenotype and function of gene expression. (I) has improved affinity (CC target nucleic acid in a sample, and in assays to determined the (CC phenotype and target sequences, as well as enhanced (CC phenotype and target sequences, as well as enhanced (CC phenotype and crivity. AB071213 to AB072214 and ABP48191 to ABB51230 (CC in the exemplification of the present invention.
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Best Local
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                                                                                                                         New zinc finger protein that binds to target site, useful in studying gene function and for human therapeutics and plant engineering, comprises first, second and third zinc fingers, ordered from N- to
                                                                                                                                                                                                                                                                   WPI; 2002-500284/53.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-NOV-2000; 2000US-0716637
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
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100.0%;
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%; Pred. No. 5.2
0; Mismatches
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No. 5.2e+02;
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RESULT 281
ABK95837/C
ID ABK958
XX ABK9583
XX Solute
XX MO2002
XX MO1; 2
XX Novel
PT Amino
XX The in
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CC first
CC (gluta
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CC a target site, comprising a first (F1), a second (F2), and a third (F3) CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the CC target site comprises, in 3'-5' direction, a first (S1), a second (S2), CC and a third (S3) target subsite. Also described are: (1) a polypeptide (II) comprising (I); (2) a polymucleotide (III) encoding (I) or (II); and CC (3) designing (M) (I) involves selecting the F1 zinc finger such that CC that it binds to the S1 target subsite, selecting the F2 zinc finger such that it binds to the S2 target subsite, and selecting the F3 zinc (CC that it binds to a target site. (I) is useful for recognition of triplet (CC that binds to a target site. (I) is useful for recognition of triplet (CC target subsites having the nucleotide G1 in the 5'-most position of the CC subsite. (I) is useful in studying gene function, and for human (CC therapeutics and plant engineering. (I), (II) or (III) is useful in the therapeutic methods to modulate the expression of a target region within (CC target nucleic acid in a sample, and in assays to detection of the CC phenotype and function of gene expression. (I) has improved affinity (CC and specificity for their target sequences, as well as enhanced (CC phenotype and target sequences and zinc finger peptides which are given in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Solute carrier family 1; SLC1A4; haplotyping; human; cancer; primer; glutamate/neutral amino acid transporter; neurological disease; PCR; amino acid transporter disorder; single nucleotide polymorphism; SNP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Solute Carrier Family 1 (SLC1A4) primer extension oligonucleotide #8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABK95837;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              acid transporter disorder;
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100.0%; Pred. No. 5.2
tive 0; Mismatches
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No. 5.2e+02;
0;
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WO200244198-A2

06-JUN-2002

29-NOV-2001; 2001WO-US44781

30-NOV-2000; 2000US-250254P

GENAISSANCE PHARM INC.

፭ Kazemi A, Russo DP, Sausker

2002-519580/55

Novel genetic variants of Solute Carrier Family 1 (Glutamate/Neutral Amino Acid Transporter), Member 4 isogenes, for improving efficiency and reliability in drug development for treating cancers -

Claim 17; Page 16; 139pp; English.

The invention relates to an isolated polynucleotide (I) comprising a first nucleotide sequence which comprises solute carrier family 1 (glutamate/neutral amino acid transporter), member 4 (SLC1A4) isogenes

Example 1;

Page

61;

81pp; English

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RESULT 282
ABV63037/c
ID ABV630
XX ABV630
XX ABV630
XX Human
CX Human
XX Human
XX Homo s
PN W02002
PD .11-JUL
XX 20-DEC
XX PR 03-JAN
XX PA (HENK
XX PH PETER
XX IN vit
PT homeos
PT IN vit
PT homeos
PS Discl
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CC in th
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Best Local S
Matches 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; skin; dermatological; vulnerary; antipsoriatic; antiseborrhaeic; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
                                                                                                                                                                In vitro identification of skin-expressed genes, useful for determining homeostasis and identifying cosmetic or pharmaceutical agents against
                                                                                                                                                                                                                                                                                                                                                                                  03-JAN-2001; 2001DE-1000127
                                                                                                                                                                                                                                                                                                                                                                                                                                   20-DEC-2001; 2001WO-EP15179
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100.0%; Pr
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No. 1.7e+02;
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The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE)

Query Match

Sequence 11

BP; 4 A; 4 C; 2 G; 1 T; 0 other;

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Length 11;

Disclosure; Page 48;

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RESULT 283
ABV70458/c
ID ABV704
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XX Human;
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                                                                                    The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression. (M1) is useful for identifying genes involved in skin homeostasis; to determine skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; sclerodermatichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                homeostasis
e.g. skin ca
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma; ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag (EST) of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               In vitro identification of skin-expressed genes, useful for determining homeostasis and identifying cosmetic or pharmaceutical agents against
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (HENK ) HENKEL KGAA.
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                                                              The present sequence is that of the invention.
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RESULT 284
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  expression. (A) comprises protein or makens of the series; determining useful for: identifying markers of skin ageing and/or stress; determining skin ageing and/or stress; and identifying or determining the effects of pharmaceutical or cosmetic agents for control of skin ageing. The present sequence is one of a group of human skin ageing/stress related expressed sequence tags (ABQ86246-ABQ87680) of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    or animals, are important for skin ageing and/or skin stress by serial analysis of gene expression between mixtures of transcribed and optionally translated, genetically encoded factors (A) obtained from young and aged skin, to identify that genes that show strong differential expression. (A) comprises protein or mRNAs or their fragments. (M1) is
                         08-MAY-2002
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                                                                             AAS19877;
                                                                                                                        AAS19877 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     skin stress;
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                                                                                                                                                                                                                                                                                                                                                                               100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                    35.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        lved in skin stress and or therapeutic agents,
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                                                                                                                           ВР
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                                                                                                                                                                                                                                                                                                                                                                          Score 7; Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     other;
                                                                                                                                                                                                                                                                                                                                                                             DB 1;
b. 2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  expressed sequence tag;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ageing, useful e.g. in based on differential
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RESULT 286 AAX18625

AAX18625 standard; DNA; 10

BP.

06-MAY-1999 p53 serial

analysis

of gene expression

#9

neoplastic;

(first

entry)

p53; serial analysis of gene expression; SAGE tag; cancer; rat embryo fibroblast; REF; tumour suppressor; cell cycle ctumourigenesis; diagnosis; ss.

Synthetic. Rattus sp.

WO9901581-A1 14-JAN-1999.

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                                             Query Match
Best Local Similarity
Anthes 8; Conserva
                           S
                                                                                                                               The present invention relates to novel single nucleotide polymorphisms (SNPs) in the human Ran GTPsee activating protein I (RANGAPI) gene located on chromosome 22g13.2g1.31, and methods for haplotyping and/or genotyping the RANGAPI gene. The methods of the invention make use of allele-specific oligonucleotides (ASOs) as probes and primers and/or primer-extension oligonucleotides for detecting the RANGAPI gene polymorphisms. The polynucleotides for detecting the RANGAPI gene treatment of diseases associated with RANGAPI activity, such as cancer and other disorders associated with an irregular cell cycle. AAS19871-AAS1988 represent primer-extension oligonucleotides for
                                                                                                                                                                                                                                                                                                                                                                                                       Genotyping human Ran GTPase activating protein 1 gene of individual determining haplotype of individual, involves determining identity of determining identity of the mucleotide pair at specific polymorphic sites for two copies of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; single nucleotide polymorphism; SNP; RANGAP1; haplotyping chromosome 22q13.2-q13.31; Ran GTPase activating protein 1; genocancer; irregular cell cycle associated disorder; primer; ss.
                                                                                                                             Sequence 10 BP; 0 A; 5 C; 3
                                                                                                                                                              detecting
                                                                                                                                                                                                                                                                                                                                                            Claim 17; Page 16; 148pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-075068/10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-APR-2000; 2000US-198072P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-APR-2001; 2001WO-US12455.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENAISSANCE PHARM INC
                                TCCGGGCCAG
                                                                                                                                                               human
                                                              Conservative
                                                                                                                                                            98 represent primer-extension oligonucleotides RANGAP1 gene polymorphisms.
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                                                                              34.0%;
                                                              0
                                                                                                                             G; 2 T; 0 other;
                                                                              Score 6.8; DB 1;
Pred. No. 1.8e+02;
                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gene polymorphisms.
                                                                                           Length 10
                                                                Indels
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                                                             Gaps
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RESULT 287
AAZ79322
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A method has been developed for the diagnosis of cancer in potentially CC nepplastic samples. The method comprises comparing the level of transcription between RNA transcripts in two tissue samples (which are of the same type), where the first sample is potentially neoplastic, and CC the second sample is normal human tissue. The first sample is categorized as neoplastic if its level of transcription is lower than that of the second sample. The transcript is selected from Alu, RAS, CC U6 snRNA, 16S RNA, EGR-1, ribosomal protein S27, ETS-1, 28S RNA, CGR11, CC and time the second sample at the second sample. The transcript is selected from ribosomal CC and LIMK-2, and it is identified by the second sample at the second sample. The second sample at the second sample at the second sample at the second sample. The present sequence represents a serial analysis of gene capression (SAGE) tag from the present invention. The use of SAGE tags of covides an extensive profile of gene expression in rat embryo CC suppression gene. The discovery of new SAGE tags, which are regulated to the present that are regulated to the present the present that are regulated to the present the present that are regulated to the present that the present the present that are regulated to the present that the pr
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Best Local S
Matches 8
  19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                      SAGE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAZ79322 standard;
                                                                                                                                                                                        W09965924-A2
                                                                                                                                                                                                                                                                       cytotoxic T-lymphocyte; tumour antigen;
                                                                                                                                                                                                                                                                                                                                                                               Human dendritic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1999-106079/09
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                                                                                                                                                 23-DEC-1999
                                                                                                          18-JUN-1999;
                                                                                                                                                                                                                                                                                      SAGE tag; serial analysis of gene expression; antigen-presenting cell; APC; monocyte-derived dendritic cell; differential gene expression; immunostimulatory cofactor; costimulatory factor; CTL;
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                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
98US-0089833.
98US-0089844.
98US-0089853.
98US-0089878.
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                                                                                                        99WO-US13800.
                                                                                                                                                                                                                                                                                                                                                                        cell SAGE tag,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           98WO-US13903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 6.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          of genes that are related to cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N
                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO:1750
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  T; 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.8e+02;
                                                                                                                                                                                                                                                                       immunotherapy; anticancer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               s - by comparing
n two tissue
f gene
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CC (APC) - associated costimulatory factors play an important role in the CC activation of the cytotoxic immune response, particularly against tumour cells. Tumour antigen presentation via the MHC (major histocompatibility complex) and subsequent recognition by T-cell receptors is alone in sufficient to activate a robust cytotoxic immune response that can CC lyse the tumour cells, immunostimulatory cofactors also being required CC for efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid Sequences identified using the SAGE tags have several potential uses. CT They may be used in vaccines to induce an immune response, particularly against a tumour antigen; to modulate the genotype of an APC; to screen CC against a tamour antigen; to modulate the genotype of an APC; to screen CC diagnosis, prognosis and monitoring of diseases related to abnormal CC expression of these genes. Detection of the dendritic cell ceptosis, prognosis and monitoring of diseases related to abnormal CC differentially expressed genes, or of their encoded proteins, can be used to identify cells as belonging to the monocyte lineage. Cells containing them are used in gene therapy. Co-administration of co-stimulation of antigen specific effector cells) and containing them are used in gene therapy. Co-administration of co-stimulatory signals, migration of chemokines for the correlation of co-stimulatory signals, migration of chemokines for cclusted or immune effector cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                      with monocytes. Some of the transcripts correspond to known genes or ESTs (expressed sequence tags) which were previously unknown to be preferentially or differentially expressed in dendritic cells, while other transcripts correspond to novel genes. Antigen-presenting cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         differentially expressed in monocyte-derived dendritic cells compared
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            expression)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Isolated polynucleotides differentially expressed
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         expression) tags used to identify mRNA transcripts encoding immunostimulatory cofactor proteins which are preferentially
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ROBERTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SHANKARA S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page 115; 130pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAZ77573-Z79709 represent SAGE (serial analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Shankara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in gene vaccines against cancer
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98US-0090040.
98US-0090041.
98US-0090042.
98US-0090043.
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98US-0090076.
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98US-0089992.
98US-0089993.
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98US-0090036
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Sequence 10

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RESULT 288
AAZ83064/c
ID AAZ830
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      reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in select cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene ocell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines; for diagnosing breast cancer and for ratsing specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be use to expand and isolate populations of educated, antigen-specific immune effecter cells, e.g. cytotoxic T lymphocytes, and these used for
                                                                                                                                                                                 AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; metastatic breast tumour tissue; breast cancer; tag; p: non-metastatic breast tumour tissue; gene therapy; anticancer antimetastatic; vaccine; diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                              Claim 1; Page 121; 219pp; English.
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                                                                                                                                                                                                                                                                                                                                                                               prevention
                                                                                                                                                                                                                                                                                                                                                                                            Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis,
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SHANKARA S.
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8; Conserv
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Pred. No. 1.8e+02;
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                                                                     AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). CC that are preferentially transcribed in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic biagnosis is by standard immunoassays or hybridisation/amplification creations. Compounds that modulate expression of the transcripts are used to direct expression, in selected promoters from the transcripts are used to direct expression, in selected coll-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines; for diagnosing breast cancer raising transcripts are also consistent the collections.
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Best Local S
Matches
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19-JUN-1998;
19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer -
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                           specific antibodies therapeutic agents.
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(ROBE/)
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SHANKARA S.
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98US-0090039
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te populations of educated, antigen-specific i
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Pred. No. 1.8e+02;
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adoptive
        piagnosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in select cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines; for diagnosing breast cancer and for raising
                                                                                                                                                                                                                                                              Isolated polynucleotides differentially and non-metastatic breast cancer cells, prevention and treatment of cancer -
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19-JUN-1998;
19-JUN-1998;
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non-metastatic breast tumour tissue; gene therapy; anticancer;
antimetastatic; vaccine; diagnosis; ss.
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                                                                                                                                                                                                                                     Page 181;
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(Ab). Ab are used to
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L.8e+02;
hes 2;
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AAH63161-AAH64774 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human;
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                                                                                                                                                                                    Sequence 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             type, such as cancer cell, comprises particular cell types -
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                                                                                                                                                                                                                                                       cancer specific gene expression, standardise expression and restore t function of a diseased cell or tissue. The present sequence is one of
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 13; Page 59; 94pp; English.
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l specific gene expression; ss.
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RESULT 292 AAH64037

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AAH613161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce
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                        chronic obstructive pulmonary disease; leukemia; lýmphoma; carcinoma; colon cancer; breast cancer; lung cancer; pancreatic cancer; hepaticellular carcinoma; kidney cancer; melanoma; hepatic metastásis
                                                                                                            respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary vasoconstriction; e
                                                                                                                                                                                                      Antisense oligonucleotide; multiple target; antisense treatment; impaired respiration; inflammation; lung disease; pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                           C/EBP-beta antisense oligonucleotide fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAX55034 standard;
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                                                                                                                                                                          acute asthma; allergy; asthma; impeded respiration;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              inflammation, including lung diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis, acute asthma, allergies, asthma, imprespiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, pulmonary vasoconstriction, emphysema, chroniobstructive pulmonary disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g. colon cancer, breast cancer, lung cancer, lymphomas, carcinomas e.g. colon cancer, breast cancer, lung cancer,
                                                                                                                                                                                                                                                                                                                             14-MAR-2001
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97US-0059160
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No. 2.1e+02;
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surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;

emphysema; pulmonary

respiratory obstruction; pulmonary obstruction; impeded respiration;

Low adenosine antisense oligonucleotide; phosphorothicate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;

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RESULT 295
AAA34481
ID AAA344
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AC AAA344
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                                                                                                                                                                                                                                                                                                 cc immunosuppressive, antitatination, purchasive and cytostatic activities. CT The antisense oligonuclectides and (I) can be used to down-regulate the cexpression and or activity of target polypeptides associated with cc lung/respiratory disorders and malignancies, such as stimulating and cc activating peptide factors and transmitters, transcription factors, cimmunoglobulins and antibodies, antibody receptors, cytokines and cc chemokines, endogenously produced specific and non-specific enzymes, binding proteins, adenosine receptors, bradykinin receptors, cytokine and cc chemokine receptors, adenosine receptors, bradykinin receptors, central ceroptors, CNS and peripheral nervous and non-nervous system peptide transmitters, defensins, growth factors, vasoactive peptides and creceptors, binding proteins and malignancy associated proteins. The antisense oligonuclectides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction and/or bronchoconstriction) and/or lung inflammation, allergy(is) and/or surfactant hypoproduction which are associated with a disease or condition selected from pulmonary vasoconstriction, inflammation, allergic syndrome (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary transplantation rejection, pulmonary disease (COPD), pulmonary transplantation rejection, pulmonary infections, bronchitis, and/or cancer. AAF19434 to AAF21543 represent human polynuclectide of the present invention.
                                                                                                                                                                                                                        Query Match
Best Local S
Matches 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention describes low adenosine (A) content antisense oligonuclectides and compositions (I) comprising them. In the antisense oligonuclectides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Low adenosine (A) content antisense oligonucleotides which do r trigger adenosine receptors during metabolism, useful e.g. for cancers and respiratory obstructions -
                 AAA34481;
                                                      AAA34481 standard; DNA; 11 BP
                                                                                                                                                                                                                                                                                                Sequence 11 BP; 0 A; 6 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (UYEC-) UNIV EAST CAROLINA (NYCE/) NYCE J W.
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                                                                                                                                                                                    CCGGGCCAGG 12
                                                                                                                                                                                                                        Conservative
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                                                                                                                                                             The present invention describes a new composition comprising an antisense oligonucleotide (ON) with low adenosine (up to 15%), which compared to targets nucleic acids involved in bronchoconstriction, allergies, and/or inflammation. The ON can have antiinflammatory, antiallergic, and/or can insthmatic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, conditions, including lung disease and diseases whose secondary ceffects afflict the lungs of a subject. They can be used for treating e.g. is chaemic conditions, pulmonary vasconstriction, allergies, cystic fibrosis, pulmonary hypertension, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukaemias, lymphomas, carcinomas, and cancers which may metastasise to the lungs, including breast and prostate cancer. The reduction of the adenosine content of the ONs reduces side effects. The A-containing ONs break down with the release of deoxyadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAA32312 represent the curlentide segmences given in the segmence listing from the present the
                                                                           Query Match
Best Local S
Matches 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothicate; impaired respiration; inflammation; allergy; allergic disease; bronchoconstriction; inhibitor; antiinflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthmarespiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD; cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
                                                                                                                                                           Sequence
                                                                                                                                                                                                               differ from the previously named sequences. SEQ ID NO:11 to 1680 (AAA32323 to AAA33992) are specifically claimed ONs from the present invention. N.B. Sequences given in the disclosure of the present invention do not match up with their corresponding SEQ ID NO: sequences
                                                                                                                                                                                                                                                                                               nucleotide sequences given in the sequence listing from the present invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185 sequences are also called SEQ ID NO:1 to 185, but the sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
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cccecccee
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                                                                           Conservative
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                                                                                                                                                                                                   sequence listing.
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RESULT 297
AAX55033
ID AAX550
XX AAX550
AC AAX550
XX DS C/EBP-
XX C/EBP-
XX Antise
KW impair
KW pulmon
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ABV68762
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression. (M1) is useful for identifying genes involved in skin homeostasis; to determine skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma; ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag
Antisense oligonucleotide; multiple target; antisense treatment; impaired respiration; inflammation; lung disease; pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                             C/EBP-beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  e.g.
                                                                                                                        AAX55033
                                                                                                                                                  AAX55033 standard;
                                                                                                                                                                                                                                                                                                                                                Sequence 11 BP; 1 A; 5 C; 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human skin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               In vitro identification of skin-expressed genes, useful for determining homeostasis and identifying cosmetic or pharmaceutical agents against
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Petersohn D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-DEC-2001; 2001WO-EP15179
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; skin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 fuman; skin; dermatological; vulnerary; antipsoriatic;
fumunosuppressive; antiinflammatory; cytostatic; SAGE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2002-590638/63
                                                                                                                                                                                                                                                                                                                                                                             of the
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8; Conserv
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                                                          antisense oligonucleotide fragment
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                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                             invention.
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                                                                                                                                                  DNA;
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                                                                                                                                                  ВP
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Pred. No. 2.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                   scleroderma;
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RESULT 298
AAF20602
ID AAF206
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AAF206
XX
AC AAF206
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DT 14-MAR
DT 14-MAR
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LDW ad
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                                                                                                                                                                                                                                                                                                                                                                                                                                                cc initiation codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-end and the juxta-section between coding and non-coding regions and all segments of RNAs encoding proteins associated with one colling nor ediseases, conditions or mixtures. The antisense oligonucleotides (specifically ANX55180-271) can be used for the conditions or mixtures. The antisense oligonucleotides (specifically ANX55180-271) can be used for the conditions are those associated with impaired respiration and conditions are those associated with impaired respiration and conditions are those associated with impaired respiration and confilmamation, including lung diseases, pulmonary vasoconstriction, construction, allergic rhinitis, acute asthma, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, culmonary hypertension, pulmonary vasoconstriction, pulmonary vasoconstriction, constructive pulmonary disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g. colon cancer, breast cancer, lung cancer, pancer, hepatocellular carcinoma, kidney cancer, melanoma, charactic cancer, hepatocellular carcinoma, kidney cancer, melanoma, charactic cancer, hepatocellular carcinoma, sidney cancer, melanoma, charactic cancer, hepatocellular carcinoma, sidney cancer, melanoma, charactic cancer, hepatocellular carcinoma, kidney cancer, melanoma, charactic cancer, hepatocellular carcinoma, cancers which may metastasize or have metastasized to the lungs, including breast and prostate cancer.
                                                                                                                                                                                                                                                                                                                                                         Matches
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Best Local (
                                       Human C/EBP polynucleotide fragment #2169
                                                                                    14-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                acute asthma; allergy; asthma; impeded respiration; respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary vasoconstriction; emphysema; chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma; colon cancer; breast cancer; lung cancer; pancreatic cancer; hepatic metastasis; hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
                                                                                                                           AAF20602
                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 12
                                                                                                                                                                     AAF20602 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The specification describes antisense oligonucleotides (AAX52869-X55271) directed against at least 2 mRNAs selected from target genes, coding and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 70; 120pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             vasoconstriction
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1999-229400/19
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17-SEP-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               prostate cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (UYEC-) UNIV
                                                                                                                                                                                                                                                                                                                      3 CCGGGCCAGG
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                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                  (first entry)
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97US-0059160
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                                                                                                                                                                     DNA;
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                                                                                                                                                                                                                                                                                                                    12
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                                                                                                                                                                                                                                                                                                                                                                                 Score 6.8; DB 1;
Pred. No. 2.4e+02;
                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                       Length 12;
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Low adenosine antisense oligonucleotide; phosphorothioate; allergy;

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The present invention describes low adenosine (A) content antisense CC oligonucleotides and compositions (I) comprising them. In the antisense CC oligonucleotides the A is replaced by a 'Universal' or alternative base. CC (I) can have respiratory, bronchodilator, antiinflammatory, analgesic, CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. CC immunosuppressive, activity of target polypeptides associated with CC lung/respiratory disorders and malignancies, such as stimulating and CC activating peptide factors and transmitters, transcription factors, CC immunoglobulins and antibodies, antibody receptors, cytokines and CC chemokines, endogenously produced specific and non-specific enzymes, CC binding proteins, adenosine receptors, bradykinin receptors, cytokine and CC chemokine receptors, adenosine receptors, bradykinin receptors, central crevous system (CNS) and peripheral nervous and non-nervous system of creeptors, binding proteins and malignancy associated proteins. The CC receptors, binding proteins and malignancy associated proteins. The CC antisense oligonucleotides may be used in this way to treat disorders cincluding respiratory obstruction (especially pulmonary obstruction and/or lung inflammation, allergy(les) and/or surfactant hypoproduction which are associated with a disease or CC condition selected from pulmonary vasoconstriction, inflammation, colonary charaction, company to treat disease or CC condition selected from colonary vasoconstriction, inflammation, pulmonary conditions (CCPD), pain, cystic fibrosis (CP), allergic rhinitis (AR), pulmonary CD pulmonary disease (COPD),
Query Match
Best Local S
Matches
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                                                                                                                                                                               Sequence 12
                                                                                                                                                                                                                                                                                                               pulmonary transplantation rejection, pulmonary infections, bronchitis, and/or cancer. AAF18434 to AAF21543 represent human polynucleotide fragments and antisense oligonucleotides used in the exemplification o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 14; Page 264; 1592pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-679539/66
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (UYEC-) UNIV EAST CAROLINA. (NYCE/) NYCE J W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24-MAR-2000; 2000WO-US08020
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                                               Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       obstructive pulmonary disease; pulmonary infection; bronchitis;
    Conservative
                                                                                                                                                                               BP; 0 A; 7 C; 5
                                                                                                                                                                                                                                                                         invention.
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                                          Score 6.8; DB 1;
Pred. No. 2.4e+02;
Mismatches
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cccecccee CCGGGCCAGG 12

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Gaps

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Query Match Best Local Similarity

34.0%;

Score 6.8; DB 1; Pred. No. 2.4e+02; 0 other;

Length 12

Sequence

0 Α;

7 C; 5 G; 0 U;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes a new composition comprising an antisense oligonucleotide (ON) with low adenosine (up to 15%), which can triverse side involved in bronchoconstriction, allergies, and/or inflammation. The ON can have antiinflammatory, antiallergic, and antiasthmatic, cytostatic and analysis cativities. The compositions are useful for the treatment of diseases associated with inflammation, cytostatic and analysis cativities. The compositions are useful for the treatment of diseases associated with inflammation, cytostation and cancers associated with inflammation, cytospirated airways, including lung disease and diseases whose secondary cation as a secondary conficts afflict the lungs of a subject. They can be used for treating cathma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukaemias, lymphomas, corrections, and cancers which may metastasise to the lungs, including breast and prostate cancer. The reduction of the adenosine content of the ONs reduces side effects. The reduction of the adenosine content of the one of desverdencine which activities adenosine reservers causing
                                                                           release of deoxyadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAA3231 to AAA35312 represent t nucleotide sequences given in the sequence listing from the present invention, which correspond to SEQ ID NO:1 to 1815, and then the last 185 sequences are also called SEQ ID NO:1 to 185, but the sequences differ from the previously named sequences. SEQ ID NO:11 to 1680 (AAA32232 to AAA33929) are specifically claimed ONs from the present invention. N.B. Sequences given in the disclosure of the present invention do not match up with their corresponding SEQ ID NO: sequence given in the sequence listing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothioate; impaired respiration; inflammation; allergy; allergic disease; bronchoconstriction; inhibitor; antiinflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAA34480 standard; DNA; 12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human adenosine receptor related polynucleotide SEQ ID NO:2169
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                                                                                                                                                                                                                 in plant biology, agriculture, human or veterinary medicine, reproduction, microbiology or environmental science, e.g. to study expression of nuclear receptors at different stages of tissue development or after treatment with particular drugs. It is also used for DNA fingerprinting (to generate products useful for differential hybridisation), or, where a 3'-anchor primer is used, to isolate the 3'-ends of mRNA sequences. Sequences AAX29526-X29583 represent claimed
                                                                                                                                                                            Sequence 8 BP; 0 A; 4 C; 2 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                       The invention provides primers (AAX29501-X29679) for identifying sequences encoding structurally or functionally related proteins such as nuclear or G-protein coupled receptors, apoptosis-related or DNA repair/replication proteins. The identified sequences are broadly useful
                                                                                                                                                                                                                                                                                                                                                                                                                                Subset of primers able to amplify group of related sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleic acid amplification; nuclear receptor; G-protein coupled receptor; apoptosis; DNA repair; DNA replication; plant biology; agriculture; human; veterinary medicine; reproduction; microbiology; hybridisation; environmental science; DNA fingerprinting; PCR primer; ss.
                                                                                                                                                                                                      primers specific for human G-protein coupled receptor genes.
                                                                                                                                                                                                                                                                                                                                                                                                   Claim 21; Page 75; 92pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1999-205200/17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           McClelland M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Primer for human G-protein coupled receptor genes.
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                                                                                                                  Score 6.4; DB 1;
Pred. No. 5.8e+02;
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US-09-130-616-31
US-09-130-616-31
US-09-371-72B-6740
US-08-584-040-6224
US-08-584-040-7661
US-08-584-040-7661
US-08-584-040-7681
US-09-371-772B-3851
US-09-371-772B-3851
US-09-371-772B-3851
US-09-371-772B-5851
US-09-371-772B-5851
US-09-371-772B-5851
US-09-371-772B-5851
US-09-371-772B-5861
US-08-584-040-1996
US-08-584-040-760
US-09-371-772B-5861
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US-09-371-772B-5861
US-09-371-772B-5861
US-09-371-772B-5861
US-09-371-772B-5861
US-09-371-772B-3661
US-08-584-040-5760
US-09-371-772B-3661
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Sequence 31, Appl Sequence 7, Appli Sequence 7, Appli Sequence 31, Appl Sequence 31, Appl Sequence 51, Appl Sequence 51, Appl Sequence 51, Appl Sequence 6244, Appl Sequence 4222, Appl Sequence 4222, Appl Sequence 1989, App Sequence 1989, App Sequence 5851, App Sequence 5851, App Sequence 6, Appli Sequence 6, Appli Sequence 51, Appl Sequence 5766, Appli Sequence 5766, Appli Sequence 5766, Appli Sequence 5766, Appli Sequence 5795, App Sequence 5795, App Sequence 5795, Appli Sequence 370, Appli Sequence 370, Appli Sequence 371, Appli Sequence 314, Appli Sequence 3144, Appli Sequence 3144, Appli Sequence 3144, Appli Sequence 31444, Appli Sequ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Description
                                                                                                                                                            RESULT 1
US-08-910-629A-31
; Sequence 31, Application
; Patent No. 5877309
; GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: 86
CORRESSPONDENCE ADDRESS:
CORRESSEE: Law Offices of Jane
STREET: 66 East Main Street
CITY: Mariton
STATE: NJ
                                                                  APPLICANT: Robert A. McKay
APPLICANT: Nicholas M. Dean
APPLICANT: Brett Monia
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: PROTEINS
NUMBER OF SEQUENCES: 86
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5877309
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US-08-488-551B-387
US-08-522-384-63
US-09-720-201A-24
US-08-822-586-49
US-08-825-586-49
US-08-8192-942-6
US-08-8192-942-6
US-08-8192-942-6
US-08-8198-551B-388
US-08-388-551B-388
US-08-924-183-6
US-08-924-183-6
US-08-924-183-6
US-08-924-183-6
US-08-910-629A-42
US-09-287-796-42
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US-09-287-796-42
US-09-130-616-31
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US-08-859-954-106
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US-09-041-675-13
US-08-864-301A-10
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                                          Massey
                                                                                              THE MODULATION
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Sequence
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RESULT 2
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TELEFAX: (609) 779-8488
INFORMATION FOR SEQ ID NO: :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US
FILING DATE: AUGUST 13
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                            APPLICATION NUMBER: US/08/910,629A
FILING DATE: AUGUST 13, 1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                  ZIP: 08053
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44
MEDIUM TYPE: STORAGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Jane Massey Licata
REGISTRATION NUMBER: 32,257
REFERENCE DOCKET NUMBER: IS
TELECOMMUNICATION INFORMATION:
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OPERATING SYSTEM: WINDOWS 95
SOCTWARE: WORDPERFECT 6.1
CURRENT APPLICATION DATA:
                                                                                                                   CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: ANTISENSE OLIGONUCLECTIDE
TITLE OF INVENTION: COMPOSITONS AND METHODS FOR THE MODULATION OF JNK
TITLE OF INVENTION: PROTEINS
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                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB
MEDIUM TYPE: STORAGE
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NTTORNEY/AGENT INFORMATION:
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                                                                                                                                                 COMPUTER: PENTIUM
OPERATING SYSTEM: WINDOWS 95
                                                                                                                                                                                                                                                                                      STREET: 66 Eas
CITY: Marlton
                                                                                                                                   SOFTWARE: WORDPERFECT 6.1
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                                                                                                                                                                                                                                                                                                           66 East Main Street
                                                                                                                                                                                                                                                         USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Robert A. McKay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Linear
                                                                                                                                                                                                                                                                                                                         Law Offices of Jane Massey Licata
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OMBER: US/08/910,629A
August 13, 1997
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FILE REFERENCE: ISPH-0336

CURRENT APPLICATION NUMBER: US/09/209,668A

CURRENT FILING DATE: 1998-12-10

NUMBER OF SEQ ID NOS: 25

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 7

LENGTH: 20

TYPE: DNA
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            GENERAL INFORMATION:
APPLICANT: MCKAY, Robert A.
APPLICANT: Dean, Nicholas M.
APPLICANT: Mean, Nicholas M.
APPLICANT: Monia, Brett
APPLICANT: Monia, Brett
APPLICANT: Monia, Brett
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
TITLE REFERENCE: ISPH-0350
CURRENT APPLICATION NUMBER: US/09/287,796A
CURRENT FILING DATE: 1999-04-07
EARLIER APPLICATION NUMBER: 09/130,616
EARLIER FILING DATE: 1998-08-07
EARLIER FILING DATE: 1998-08-07
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Patent No. 6114517

GENERAL INFORMATION:
APPLICANT: Monia, Brett P.
APPLICANT: Xu, Xiaoxing S.
TITLE OF INVENTION: METHODS OF MODULATING TUMOR NECROSIS FACTOR
TITLE OF INVENTION: alpha-INDUCED EXPRESSION OF CELL ADHESION METHODS OF MODULATING TUMOR NECROSIS FACTOR
TITLE DESERVED. TERM.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (609) 779-8488
INFORMATION FOR SEQ ID NO: 4
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Artificial Sequence FEATURE:
ARLIER APPLICATION NUMBER: 08/910,629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: Li
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
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nes 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: Nucleic Acid
STRANDEDNESS: Singl
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APPLICANT: Monia, Brett
APPLICANT: Nero, Pam
APPLICANT: Gaarde, William A.
APPLICANT: Gaarde, William A.
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
FILE REFERENCE: ISPH-0350
CURRENT APPLICATION NUMBER: US/09/287,796A
CURRENT FILING DATE: 1999-04-07
EARLIER APPLICATION NUMBER: 09/130,616
EARLIER APPLICATION NUMBER: 08/910,629
EARLIER APPLICATION NUMBER: 08/910,629
EARLIER APPLICATION NUMBER: 08/910,629
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LENGTH: 20
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Patent No. 6221850
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Best Local Similarity
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APPLICANT: MCKAY, ROBERT A.
APPLICANT: Dean, Nicholas M.
APPLICANT: Monia, Brett
APPLICANT: Monia, Brett
APPLICANT: Nero, Pam
ITITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
FILE REFERENCE: ISPH-0318
CURRENT APPLICATION NUMBER: US/09/130,616C
CURRENT FILING DATE: 1998-08-07
EARLIER APPLICATION NUMBER: 08/910,629
EARLIER FILING DATE: 1997-08-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: McKay, Robert A. APPLICANT: Dean, Nicholas M.
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NUMBER OF SEQ ID NOS: 165
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Artificial Sequence
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ORGANISM: Artificial Sequence
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ENGTH: 20
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100.0%; Pred. No.
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SEQ ID NO 42
LENGTH: 20
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                                                                                                                                                                                                                                                                                               Sequence 6740, Application US/09371772B Patent No. 6566127
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                                  APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/09/130,616C CURRENT FILING DATE: 1998-08-07 EARLIER APPLICATION NUMBER: 08/910,629 EARLIER FILING DATE: 1997-08-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JENERAL INFORMATION:
APPLICANT: MCKAY, Robert A.
APPLICANT: Dean, Nicholas M.
APPLICANT: Monia, Brett
APPLICANT: Monia, Brett
APPLICANT: Nero, Pam
APPLICANT: Gaarde, William A.
APPLICANT: Gaarde, William A.
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
FILE REFERENCE: ISPH-0318
                                                                                                                                                                          APPLICANT: Ribozyme Pharmaceuticals, Inc. APPLICANT: Pavco, Pam APPLICANT: McSwiggen, Jim APPLICANT: Stinchcomb, Dan APPLICANT: Escobedo, Jaime
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PRIOR APPLICATION NUMBER: US 08/584,040 PRIOR FILING DATE: 1996-01-08
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100.0%; Pred. No.
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Pred. No. 0.81;
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RESULT 10
US-08-584-040-6244/c
US-08-584-040-6244, Application US/08584040
; Patent No. 6346398 ,
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US-08-951-923-51
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Best Local S
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/951,923
FILING DATE: October 16, 1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Neeley, Richard L.
REGISTRATION NUMBER: 30,092
REFERENCE/DOCKET NUMBER: BITT-001/02US
TELEPHONE: 650 843-5000
TELEPHONE: 650 843-5000
TELEPAX: 650 857-0663
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Best Local (
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APPLICANT: Bitter
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                                                                                                                                                                                                              MOLECULE TYPE:
HYPOTHETICAL: 1
ANTI-SENSE: NO
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ORGANISM: Homo sapiens
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MEDIUM TYPE: Floppy disk
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ZIP: ,943
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Pred. No. 4
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                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Best Local Similarity
         APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 60/005,97-
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION UNMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/
TELECOMMUNICATION INFORMATION:
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PRIOR APPLICATION'NUMBER: US 60/005,974
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LENGTH: 18 base pairs
TYPE: nucleic acid
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MEDIUM TYPE: 3.5" Diskette, 1.44
MEDIUM TYPE: storage
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TITLE OF INVENTION:
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OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 90071-2066
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STATE: California
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633 West Fifth Street
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Stinchcomb, Dan T.
Escobedo, Jaime
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Pred. No. 5
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; TYPE: RNA
; ORGANISM: Mus sp.
US-09-371-772B-3004
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US-08-584-040-4222
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 3004
LENGTH: 18
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Best Local Similarity
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PRIOR APPLICATION NUMBER: US
PRIOR FILING DATE: 1996-01-08
                                                                                                                                                                                                                                    APPLICATION NUMBER: US/08/584,040
FILING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,974
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                 TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                             NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette,
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: METHOD AND REAGENT FOR THE TITLE OF INVENTION: TREATMENT OF DISEASES OR TITLE OF INVENTION: CONDITIONS RELATED TO LEVEL TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL TITLE OF INVENTION: GROWTH FACTOR
                                                                                    SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM Compatible OPERATING SYSTEM: IBM P.C. SOFTWARE: Word Perfect 5.1
                                                                                                                     TELEPHONE: (213) 955-0440
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STATE: California
                  TOPOLOGY: 11
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o. 6346398
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                                               nucleic acid
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Stinchcomb, Dan T.
Escobedo, Jaime
                linear
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88.9%;
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                                                                                                      4222:
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Pred. No. 5
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US-09-371-772B-1989/c
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions |
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (23/7198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR FILING DATE: 1996-01-08
NUMBER OF SEO ID NOS: 14225
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APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
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TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: RNA
ORGANISM: Homo sapiens
                                 COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette,
MEDIUM TYPE: storage
                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
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                                                                                                                                                          ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                          CITY: Los Angeles
STATE: California
 OPERATING SYSTEM:
                                                                                                       COUNTRY: U.S.A.
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Stinchcomb, Dan T.
Escobedo, Jaime
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             IBM Compatible
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93.8%;
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IBM P.
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0; Mismatches
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Pred. No. 5
 DOS 5.0
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RESULT 16
US-09-371-772B-4833/c
; Sequence 4833, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
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US-09-371-772B-3450/c
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                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
SOFTWARE: PatentIn version 3.0
SEQ ID NO 3450
                                                                                                                                                                                                    Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-U (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Ribozyme Pharmaceuticals, Inc. APPLICANT: Pavco, Pam APPLICANT: McSwlggen, Jim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                            LENGTH: 17
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LENGTH: 17 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,974
APPLICATION NUMBER: 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION:
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Local Similarity 100.0%; So
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/08/584,040
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Similarity 100.0%; P
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Pred. No.
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Pred. No. 6.9;
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; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-5851
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US-09-371-772B-5851/c
; Sequence 5851, Application US/09371772B
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Best Local S
Matches 14
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Best Local S
Matches 15
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LENGTH: 17
                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILLING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILLING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
TITLE REFERENCE: WAHBOO, 876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor FILE REFERENCE: MEHBBO0, 876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 60/005,974
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APPLICANT:
APPLICANT:
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APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: US 08/584,040 PRIOR FILING DATE: 1996-01-08
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SOFTWARE: PatentIn version 3.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: RNA
ORGANISM: Homo sapiens
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                               3 CCGGGCCAGGCCAAA 17
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                                                                                                 Similarity
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Stinchcomb, Dan
Escobedo, Jaime
                                                                             Conservative
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Pred. No. 7.
                                                                                               Score 13.4;
Pred. No. 8;
                                                                                 Mismatches
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                                                                                                                  Length 16;
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US-08-924-183-6
, Sequence 6, Application US/08924183A
; Patent No. 6218109
; GENERAL INFORMATION:
; APPLICANT: Elledge, Stephen J.

RESULT 18

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SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 6
LENGTH: 17
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
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US-09-488-364-6
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US-09-488-364-6
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Matches
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CURRENT FILING DATE: 2000-01-12
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 6
LENGTH: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: Elledge, Stephen J.
APPLICANT: Sanchez, Volanda
TITLE OF INVENTION: MAMMALIAN CHECKPOINT GENES AND PROTEINS
FILE REFERENCE: 120541-1013
                                                                                                                                                                                                                                                                Sequence 1996, Application US/08584040 Patent No. 6346398
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Best Local :
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CURRENT APPLICATION NUMBER: US/08/924,183A
CURRENT FILING DATE: 1997-09-05
NUMBER OF SEQ ID NOS: 15
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TITLE OF INVENTION: MAMMALIAN CHECKPOINT GENES AND PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
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                                                                                 APPLICANT: ESCODED, Jaime
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: TREATMENT OF DISEASES OR
TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
TITLE OF INVENTION: GROWTH FACTOR
                                                                                                                                                                                                           APPLICANT:
                                                    CORRESPONDENCE ADDRESS:
                                                                     NUMBER OF SEQUENCES:
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                                    ADDRESSEE:
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E: Lyon & Lyon
633 West Fifth Street
Suite 4700
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Stinchcomb, Dan T.
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93.3%;
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Pred. No. 8.8;
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LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
US-09-371-772B-541
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US-09-371-772B-541/c
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                                                                                                                                         SOFTWARE: PatentIn version SEQ ID NO 541
Best Local Similarity 93. Matches 14; Conservative
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                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 541, Application US/09371772B
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                                                                                                                                                                                                          APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR APPLICATION NUMBER: US 08/584,040
                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Pawco, Pam
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
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FILING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,974
FILING DATE: OCCODER 26, 1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                             NUMBER OF SEQ ID NOS: 14225
                                                                                                                                                                                            PRIOR FILING DATE: 1996-01-08
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEPAX: (213) 955-0440
TELEX: 67-3510
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OPERATING SYSTEM: IBM P.C.
SOSTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
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STRANDEDNESS: single
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REGISTRATION NUMBER: 32
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January 11, 1996
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93.3%;
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ER: 218/064
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                 Score 13.4;
Pred. No. 8.
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Pred. No. 8
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Mismatches
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                                Length 17;
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CCGGGCCAGGCCAAA 17

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APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00, 876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR APPLICATION NUMBER: US 08/584,040
SEQ ID NO 4834
LENGTH: 17
TYPE: Dans
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US-09-371-772B-4834
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US-09-371-772B-4834/c
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Best Local :
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               SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                        APPLICANT: ESCOBEDO, Jaime
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: TREATMENT OF DISEASES OR
TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
TITLE OF INVENTION: GROWTH FACTOR
NUMBER OF SEQUENCES: 8502
                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                STREET: 633 West F
STREET: Suite 4700
CITY: Los Angeles
                                                                                OPERATING SYSTEM:
                                                                                                                                                                                                             STATE: California COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                   ADDRESSEE:
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0. 6346398
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Similarity 93.3%;
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633 West Fifth Street
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Stinchcomb, Dan T.
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                                                          Word Perfect 5.
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January 11, 1996
                                                                              IBM P.C.
                   US/08/584,040
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Pred. No. 8.
                                                                                  DOS 5.0
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PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 3449
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Mus Sp.
US-09-371-772B-3449
US-08-584-040-5795/c
; Sequence 5795, Application US/08584040
; Patent No. 6346398
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US-09-371-772B-3449/c
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TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 76
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                    Query Match
Best Local (
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MSHB00,876-U (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/05,974
PRIOR APPLICATION NUMBER: US 60/05,974
PRIOR APPLICATION NUMBER: US 08/584,040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,974
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
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                                                                                                                                                                                                                    65.0%; Score 13; 100.0%; Pred. No.
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GENERAL INFORMATION:

APPLICANT: APPLICANT: APPLICANT:

Pavco, Pamela McSwiggen, James Stinchcomb, Dan T.

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US-09-371-772B-2661/c
                                                                                                                                                                                                                                                                                                                   Sequence 2661, Application US/09371772B Patent No. 6566127
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/584,040
FILING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,974
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
          APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 60/05,974
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR APPLICATION NUMBER: US 08/584,040
                                                                                                                                                                                             APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
                                                                                                                                                                                                                                                                                                 ENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette,
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOPTWARE: Word Perfect CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRANDEDNESS:
TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: U.S.A. ZIP: 90071-2066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: Los Angeles
STATE: California
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                                                                                                                                                                                                                                                                                                                                                                                                                                          16
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ID NOS:
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87.5%;
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Pred. No. 1:
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; ORGANISM: Mus sp.
US-09-371-772B-2661
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                                                                                                                                                                                      TELEFAX: (212) 200 TELEFAX: TWX 710-581-4766
INFORMATION FOR SEQ ID NO: 49
SEQUENCE CHARACTERISTICS:
LENGTH: 12
LENGTH: 12
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                                                                    Best
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Best Local Similarity
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SEQ ID NO 2661
                                                                                     Query Match
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                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: 3.5 INCH 1.44 Mb ST
MEDIUM TYPE: DISKETTE
COMPUTER: 1EM PC COMPATIBLE
OPERATING SYSTEM: MS-DOS
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION MARCH 20, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                            REGISTRATION NUMBER: 39,911
REFRENCE/DOCKET NUMBER: 96700/437
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 697-5995
TELEFAX: (212) 286-0854 or 286-0082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH:
                                                                                                                               MOLECULE TYPE: HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: WIILIAM R. JACOBS, JR., JAMES M. MUSSER AND APPLICANT: AMALIO TELENTI
                                                                      Local
                                                                                                                                                                        STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: 90 PARK AVENUE CITY: NEW YORK
                                                                                                                                                            TOPOLOGY:
                                                                                                                                                                                                                                                                                                                         NAME: ELIZABETH A. BOGOSIAN REGISTRATION NUMBER: 39,911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE:
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                            5 GGGCCAGGCCAA 16
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                                                                      Similarity
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Y: U.S.A.
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                                                                                                                              other nucleic acid
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                                                                      52.0%; Score 10.4;
91.7%; Pred. No. 1
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Pred. No. 1:
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                                                                                     DB 1; Length 12;
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                                                         Indels
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                                                        Gaps
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US-09-281-418-100 ; Sequence 100, Application US/09281418 ; Patent No. 6287769

RESULT 28

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US-08-882-046-77
                                                                                   COMPUTER: 15W PC COMPACTIBLE
COPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/882,046
FILING DATE: 25-UUN-1997
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION UNVBER: 31,815
REFERENCE/DOCKET NUMBER: P-UW 2637
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-8949
INFORMATION POR SEQ ID NO: 77:
SEQUENCE CHARACTERISTICS:
TENCTUP: 13 hase majirg
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Patent No. 6136952
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LENGTH: 12
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CURRENT APPLICATION NUMBER: US/09/281,418
CURRENT FILING DATE: 1999-03-30
EARLIER APPLICATION NUMBER: JP/1998/87651
EARLIER FILING DATE: 1998-03-31
EARLIER FILING DATE: 1998-03-16
EARLIER FILING DATE: 1999-03-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ITLE OF INVENTION: Method of Amplifying DNA Fragment, Appar TITLE OF INVENTION: agment, Method of Assaying Microorganism TITLE OF INVENTION: nisms and Method of Assaying Contaminant
                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Spinner, Nancy B.
TITLE OF INVENTION: Human Jagged Polypeptide, Encoding
TITLE OF INVENTION: Nucleic Acids and Methods of Use
NUMBER OF SEQUENCES: 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE: Campbell & Flores LLP STREET: 4370 La Jolla Village Drive, Suite CITY: San Diego
                                      STRANDEDNESS: single
                                                       TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
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Krantz, Ian D.
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                     linear
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91.7%;
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Pred. No. 17;
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                                                                                                                ; ORGANISM: synthetic US-09-922-445-36
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APPLICANT: Andersson, M
APPLICANT: Berglund, L
APPLICANT: Reneland, R
APPLICANT: Adam, Gail
                                                                                                                                                                                                                                                                                                                                                                                 US-09-922-445-36/c
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                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/09/922,445
CURRENT FILING DATE: 2001-08-03
NUMBER OF SEQ ID NOS: 51
SOFTWARE: PATENTIN VERSION 3.1
SEQ ID NO 36
SEQ ID NO 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/922,445
CURRENT FILING DATE: 2001-08-03
NUMBER OF SEO ID NOS: 51
SOFTWARE: PatentIn version 3.1
SEQ ID NO 11
LENGTH: 13
TYPE: DNA
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                                                                                                                                                                                                                                                                                                                                                    Sequence 36, Application US/09922445 Patent No. 6528268
                                                        Matches
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Best Local Similarity
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Patent No. 6528268
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                                                                                                                                                                                                                                               TITLE OF INVENTION: REAGENTS AND METHODS FOR DETECTION OF HEART FAILURE FILE REFERENCE: GG126US
                                                                                                                                                                                                                                                                            APPLICANT: Andersson, Mai
APPLICANT: Berglund, Lai
APPLICANT: Reneland, Rij
APPLICANT: Adam, Gail I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: GG126US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: REAGENTS AND METHODS FOR DETECTION OF HEART FAILURE
                                                                                                                                            LENGTH: 13
TYPE: DNA
                                                                      Local Similarity
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                                                        Conservative
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, Rikard H.
                                                                      49.0%;
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Rikard H.
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Pred. No. 23;
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Pred. No. 23
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                                                                                   Length 13;
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US-09-49-155A-324 ; Sequence 324, Application US/09249155A ; Patent No. 6538173

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; ORGANISM: Mus musculus
US-09-249-155A-324
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Patent No. 6048693
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Best Local Similarity
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PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/097,937
PRIOR FILING DATE: 1998-08-26
PRIOR APPLICATION NUMBER: US 60/102,051
PRIOR FILING DATE: 1998-09-28
PRIOR FILING DATE: 1998-09-28
PRIOR FILING DATE: 1998-09-28
PRIOR FILING DATE: 1998-09-28
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TELEX: 380816COOLEYPA
INFORMATION FOR SEQ ID NO:
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TITLE OF INVENTION:
FILE REFERENCE: 004
                                                                                                                                                                                                                                                                                                                                                                                   NAME: Neeley, Richard L.
REGISTRATION NUMBER: 30,092
REFERENCE/DOKET NUMBER: BITT-001/02US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650 843-5000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
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HYPOTHETICAL:
                                         MOLECULE TYPE:
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STRANDEDNESS: SING
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/08/951,923
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STREET: 5 Palo Alto Square, 3:
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Pred. No. 22;
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                                                                                                                                                                     Sequence 387, Application US/08488551B Patent No. 6015661
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                                                                                                                                GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: DNA (general control of the 
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NAME: DiG19110, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 960
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TITLE OF INVENTION: NON-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION:
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les 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/08/388,353
FILING DATE: 14-FEB-1995
CLASSIFICATION: 424
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STATE: New York
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Learmont, v.
Dale A.
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                                 Dale A. McPhee
David Cooper
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                                                                                                     Nicholas J. Deacon
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83.3%;
NON-PATHOGENIC STRAINS OF HIV-1
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Pred. No. 43;
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US-08-522-384-63/c
                                                                                             SOFTWARE: PatentIn Ver. 2.1 SEQ ID NO 63
                                                                                                                                                                                                                                                                            Sequence 63, Application US/08522384
Patent No. 6110667
                                                                                                                                                                                                                                                              GENERAL INFORMATION:
OTHER INFORMATION: Description of Unknown Organism: -08-522-384-63
                                                                                                                                          CURRENT APPLICATION NUMBER: US/08/522,384
CURRENT FILING DATE: 1996-11-15
                                                                                                                                                                              TITLE OF INVENTION: PROCESSES, APPARATUS AND COMPOSITIONS FOR TITLE OF INVENTION: CHARACTERIZING NUCLEOTIDE SEQUENCES FILE REFERENCE: 2458-4029
                                                                                                                              NUMBER OF SEQ ID NOS: 122
                                                                                                                                                                                                                              APPLICANT: LOPEZ-NIETO, CARLOS APPLICANT: NIGAM, SANJAY KUMAR
                                  TYPE: DNA
ORGANISM: Unknown Organism
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                              FEATURE:
                                                                                ENGTH:
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MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELECOMMUNICATION INFORMATION:
TELEPHONE: (516) 742-4343
TELEFAX: (516) 742-4366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: FRANK S. DIGIGLIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
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COMPUTER: II
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APPLICATION NUMBER:
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LING DATE: 14-FE
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400 GARDEN CITY PLAZA
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SEQ ID NO 24
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Best Local
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APPLICANT: KOHARA, MICHINORI
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NUMBER OF SEQ ID NOS: 25
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APPLICANT: TAIRA, KAZUNARI
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                               CURRENT APPLICATION DATA:
                                                                                            ZIP: 10016
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INCH 1.44 Mb STORAGE
MEDIUM TYPE: DISKETTE
                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 5
                                                                                                                                                                                                                                                                         TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                           STREET: 90 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
                                               COMPUTER: IBM PC COMPATIBLE OPERATING SYSTEM: MS-DOS SOFTWARE: ASCII
APPLICATION NUMBER: US/08/822,586 FILING DATE: MARCH 20, 1997
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                                                                                                                                                              COUNTRY: U.S.A.
                                                                                                                                                                                                                         DDRESSEE:
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5. 6524853
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MATSUZAKI, JUNICHI
                                                                                                                                                                                                                                                                                                                                                                       Application US/08822586
                                                                                                                                                                                                                                                                                                        AMALIO TELENTI
                                                                                                                                                                                                                                                                                                                     WIILIAM R. JACOBS, JR., JAMES M. MUSSER AND
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                                                                                                                                                                                                                            AMSTER,
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90.0%;
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90.0%;
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                                                                                                                                                                                                                            ROTHSTEIN & EBENSTEIN
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Pred. No. 28
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US-08-859-954-105
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                                                                                                                              ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5900
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
TELEPHONE: 713/651-5326
INFORMATION FOR SEQ ID NO: 105:
SEQUENCE CHARACTERISTICS:
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TELEFAX: (212) 286-0854 or 286-0082
TELEX: TWX 710-581-4766
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPATIBLE
COMPUTER: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/08/859,954
APPLICATION NUMBER: US/08/859,954
                                                                                                                                                                                                                                                                                                           CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Hardin,
APPLICANT: Homayou
APPLICANT: Hardin,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: ot
HYPOTHETICAL: NO
                                      MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Design and Optimized Primer Library for TITLE OF INVENTION: Gene Sequencing and Method Thereof NUMBER OF SEQUENCES: 566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 96'
TELECOMMUNICATION INFORMATION:
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nes 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: U.S.A. ZIP: 77010-3095
                                                                      STRANDEDNESS:
                                                                                          TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Texas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      E: Fulbright & Jaworski L.L.P.
1301 McKinney, Suite 5100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/08859954
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                                                        linear
other nucleic acid
/desc = "oligonucleotide"
YES
                                                                        single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
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Query Match
Best Local Similarity
Thes 8; Conserv:
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                                                                                                                                    TELEPAX: 650-326-2422
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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Patent No. 58
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Best Local Similarity 100.0%;
Matches 8; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,887A
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                             NAME: Liebeschuetz, Joseph O.
REGISTRATION NUMBER: 37,505
REFERENCE/DOCKET NUMBER: 018547-004160US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-326-2400
                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/143,312
FILING DATE: 26-OCT-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/082,937
APPLICATION NUMBER: US 08/082,937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ANTI-SENSE:
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ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
                                                                                                                                                                                                                                                                                                                                   FILING DATE: 25-JUN-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Sheldon, Edward L.
TITLE OF INVENTION: Arrays of Nucleic Acid Probes on
TITLE OF INVENTION: Biological Chips
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STATE: California
                                                                                                                         TOPOLOGY:
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    Application US/08441887A
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                Conservative
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                                                                                                                         linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chee, Mark
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fodor, Stephen P.A.
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                                                                                                       DNA (probe)
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                40.0%; Score 8;
100.0%; Pred. No.
tive 0; Mismatc
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Pred. No. 1.6e+02;
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                  Mismatches
                                    DB 1;
                                                   Length 10;
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                Indels
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US-08-388-353-388
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                                                                                                                                                                          Patent No. 6010895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: 197/173
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: bit.
CITY: Los Angeles
CTATE: California
                                                                                                                               APPLICANT: Deacon, Nicholas J.
APPLICANT: Learmont, Jennifer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
                CORRESPONDENCE ADDRESS: ADDRESSEE: Scully, S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA: APPLICATION NUMBER: US
                                                NUMBER OF SEQUENCES:
                                                               TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1
                                                                                 APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                          Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Warburg, Richard REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH:
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                                                                                                                                                              INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    nucleic acid
                                                                                            Learmont, Jennifer C. McPhee, Dale A. Crowe, Suzanne
2: Scully, Scott, Murphy & Presser 400 Garden City Plaza
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SYSTEM: IBM P.C. DOS (Version 5.0) WordPerfect (Version 5.1)
                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                    single
                                                                                                                                                                                                                                                                                                                                    40.0%; Scc-
100.0%; Pr
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METHOD AND REAGENT FOR
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                                                                                                                                                                                                                                                                                                                                                                       Length 10;
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Best Local Similarity
Thes 8; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 3 Patent No.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/388,353
FLING DATE: 14-FEB-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: DIGIGIO, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 3606
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -08-388-353-389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEX: 230 901 SANS UR INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Crowe, Suzanne
APPLICANT: Cooper, David
TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/388,353
FILING DATE: 14-FEB-1995
CLASSIFICATION: 424
CLASSIFICATION: 424
                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: 96
TELECOMMUNICATION INFORMATION:
TELEPHONE: (516) 742-4343
TELEPHAX: (516) 742-4366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: DiGiglio, Frank S.
REGISTRATION NUMBER: 31,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                           ZIP: 11530
                                                                                                                                                                                                                                                                                                                CITY: Garden City
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRANDEDNESS:
                                                                                                                                                                                                                                                                                COUNTRY:
                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       389, Application US/08388353
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                                                                                                                                                                                                                                                                                                 New York
                                                                                                                                                                                                                                                                                                                                 E: Scully, Scott, Murphy & Presser
400 Garden City Plaza
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Learmont, Jenni
McPhee, Dale A.
                                                                                                                                                                                                                                                                            United States
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Deacon, Nicholas J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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100.0%;
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US-08-488-551B-388
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Query Match
Best Local Similarity
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                                                                                                                                                                               TELEFAX: (516) 742-4366 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
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                                                                    TOPOLOGY: 1
                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: PM400:
FILING DATE: 21-FEB-1994
APPLICATION NUMBER: PN026
FILING DATE: 23-DEC-1994
APPLICATION NUMBER: US 08
FILING DATE: 14-FEB-1995
APPLICATION NUMBER: PN3021
FILING DATE: 17-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,551B
FILING DATE: 07-JUN-1995
PRICE APPLICATION DATA:
                                                                                                                                                                                                              TELEPHONE: (516) 742-4343
                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
NAME: FRANK S. DIGIGLIO
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
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                                                                                                                       TYPE: nucleic acid
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APPLICATION NUMBER: PM3864 (ACC.)

FILING DATE: 14-FEB-1994

FILING DATE: 14-FEB-1994
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OPERATING SYSTEM: PC-DOS/MS-DOS
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nes 8; Conservative (
                                                                                                        STRANDEDNESS:
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TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1
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40.0%; S
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Score 8; 1
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Pred. No.
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DB 1;
o. 32;
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o. 32;
              Length 10;
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                             US-08-924-183-6/c
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Sequence 6, Application US/08924183A Patent No. 6218109
                                                                                                                                                         Matches
                                                                                                                                                                      Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 14-FEB-
                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
NAME: FRANK S. DIGIGLIO
                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 23-DEC-1994
APPLICATION NUMBER: US 08,
FILING DATE: 14-FEB-1995
APPLICATION NUMBER: PN302:
FILING DATE: 17-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Dale A. McPhee
APPLICANT: David Cooper
TITLE OF INVENTION: NON-PATHOGENIC STRAINS OF HIV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                    STRANDEDNESS:
                                                                                                                                                                                                                                                                               TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/0: FILING DATE: 07-JUN-1995
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                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 21-FE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 14-FEB-1994
APPLICATION NUMBER: PM4002 (AU)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: GARDEN CITY
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                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                 (516) 742-4366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nicholas J. Deacon
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                                                                                                                                                                                                                                                       linear
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                                                                                                                                                       Score 8; DB 1; Pred. No. 32; 0; Mismatches
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                                                                                                                                                                                     Length 10;
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APPLICANT: Elledge, Stephen J.

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RESULT 48
US-08-910-629A-31/c
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Best Local Similarity
"hes 9; Conserv?
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic US-08-924-183-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 15
SOFTWARE: PATENTIN VER. 2.0
SEQ ID NO 6
LENGTH: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                    Sequence 31, Application US/08910629A Patent No. 5877309
                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
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                                                                                                                                                                                                                                  Patent No.
                                                                                                                                                                                                     GENERAL INFORMATION: APPLICANT: Robert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/09/488,364
CURRENT FILING DATE: 2000-01-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Elledge, Stephen J.
APPLICANT: Sanchez, Yolanda
TITLE OF INVENTION: MAMMALIAN CHECKPOINT GENES AND PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/08/924,183A
CURRENT FILING DATE: 1997-09-05
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: 120541-1013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Sanchez, Yolanda
TITLE OF INVENTION: MAMMALIAN CHECKPOINT GENES AND PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
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                                                                                          CORRESPONDENCE ADDRESS
                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                       TLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity hes 9; Conserv
                                STATE:
                                                          STREET:
                 COUNTRY:
                                                                            ADDRESSEE:
                                                                                                                                       LE OF INVENTION:
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08053
                                             Marlton
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                                                                                                                                                        INVENTION:
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                                                          66 East Main Street
                USA
                                                                                                                                                                                      Nicholas M. Dean
                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                    Brett Monia
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                                                                                                                                                                                                     Robert A. McKay
                                                                          Law Offices of Jane Massey Licata
                                                                                                                                                                                                                                                                                                                                                                                                         39.0%;
81.8%;
                                                                                                                       ANTISENSE OLIGONUCLEOTIDE COMPOSITONS AND METHODS FOR THE MODULATION OF JNK PROTEINS
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                       Score 7.8;
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                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
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US-08-910-629A-42
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 42,
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Best Local
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                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE,
MEDIUM TYPE: STORAGE
COMPUTER: PENTIUM
                                                          CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                     SOFTWARE: WORDPERFECT 6.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY:
ANTI-SENSE:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Jane Massey Licata
REGISTRATION NUMBER: 32,
                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION: 514
PRIOR APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: WORDPERFECT CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: Nucleic Acid
STRANDEDNESS: Sing
                                                                                                       APPLICATION NUMBER: FILING DATE: August
                                                                                                                                                              OPERATING SYSTEM: WINDOWS 95
                                                                                                                                                                                                                                                                                       CITY: .Marlton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: August 13, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: PENTIUM
OPERATING SYSTEM: WINDOWS 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB MEDIUM TYPE: STORAGE COMPUTER: PENTIUM
                                                                                                                                                                                                                                                           COUNTRY: USA
                                                                                                                                                                                                                                                                                                                     ADDRESSEE:
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10; Conserv
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5877309
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                                                                                                                                                                                                                                                                                                     E: Law Offices of Jane Massey Licata 
66 East Main Street
                                                                                                                                                                                                                                                                                                                                                                                                             Nicholas M. Dean
Brett Monia
                                                                                                                                                                                                                                                                                                                                                                                                                                           Robert A. McKay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Yes
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                                                                                           August 13, 1997
DN: 514
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                                                                                                                                                                                                                                                                                                                                                                                                ANTISENSE OLIGONUCLEOTIDE
                                                                                                                       US/08/910,629A
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Pred. No. 55;
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REFERENCE/DOCKET NUMBER:

ISPH-0215

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APPLICANT: NO.12.

APPLICANT: XU, Xiaoxing S.

TITLE OF INVENTION: METHODS OF MODULATING TUMOR NECROSIS FACTOR

TITLE OF INVENTION: Alpha INDUCED EXPRESSION OF CELL ADHESION MOLEC

FILE REPERENCE: 1898-0336

CURRENT APPLICATION NUMBER: US/09/209,668A

CURRENT APPLICATION NUMBER: US/09/209,668A

CURRENT FILING DATE: 1998-12-10

NUMBER OF SEQ ID NOS: 25

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 7

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial Sequence
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; ANTI-SENSE:
US-08-910-629A-42
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APPLICANT: NeTO, Pam
APPLICANT: GAARD, WAILLIAM A.
APPLICANT: GAARD, WAILLIAM A.
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
FILE REFERENCE: ISPH-0350
CURRENT APPLICATION NUMBER: US/09/287,796A
CURRENT FILING DATE: 1999-04-07
EARLIER APPLICATION NUMBER: 09/130,616
EARLIER FILING DATE: 1998-08-07
EARLIER APPLICATION NUMBER: 08/910,629
EARLIER APPLICATION NUMBER: 08/910,629
EARLIER FILING DATE: 1997-08-03
                                                                                                                                                                                                                                                                                           Sequence 31, Application US/09287796A Patent No. 6133246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local
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                                                                                                                                                                                          JENERAL INFORMATION:
APPLICANT: McKay, Robert A.
APPLICANT: Dean, Nicholas M.
APPLICANT: Monia, Brett
APPLICANT: Moro, Pam
APPLICANT: Nero, Pam
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -09-209-668-7/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: antisense sequence
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STRANDEDNESS:
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Pred. No. 55;
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Pred. No. 9
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US-09-130-616-31/c
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LENGTH: 20
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Best Local Similarity
CURRENT APPLICATION NUMBER: US/09/130,616C CURRENT FILING DATE: 1998-08-07 EARLIER APPLICATION NUMBER: 08/910,629 EARLIER FILING DATE: 1997-08-03 NUMBER OF SEQ ID NOS: 178
                                                                                                                                                                                   APPLICANT: MCKAY, Robert A.
APPLICANT: Dean, Nicholas M.
APPLICANT: Monia, Brett
APPLICANT: Nero, Pam
APPLICANT: Nero, Pam
APPLICANT: Gaarde, William A.
APPLICANT: Gaarde, William A.
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
FILE REFERENCE: ISPH-0318
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CURRENT FILING DATE: 1999-04-07
EARLIER APPLICATION NUMBER: 09/130,616
EARLIER FILING DATE: 1998-08-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 165
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APPLICANT: Nero, Pam
APPLICANT: Gaarde, William A.
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
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TYPE: DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: Synthetic Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial Sequence FEATURE:
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71.4%;
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Pred. No. 55;
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Pred. No. 55;
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Matches
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LENGTH: 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Dean, Nicholas M.
APPLICANT: Monia, Brett
APPLICANT: Monia, Brett
APPLICANT: Nero, Pam
APPLICANT: Gaarde, William A.
TITLE OF INVENTION: ANTISENSE OLIGONUCLECTIDE COMPOSITIONS AND METHODS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
                                                                                                                                                                                                                                                                                                                           -08-105-483-423
                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/09/130,616C CURRENT FILING DATE: 1998-08-07 EARLIER APPLICATION NUMBER: 08/910,629 EARLIER FILING DATE: 1997-08-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     09-130-616-42
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Artificial Sequence
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        ZIF: 10000 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
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                                                                                                                                                                                                                             APPLICANT: Paoletti, Enzo
TITLE OF INVENTION: GENETICALLY ENGINEERED VACCINE
TITLE OF INVENTION: STRAIN
                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local
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                                                                                                               CITY: New York
STATE: NY
                                                                                            COUNTRY:
                                                                                                                                             STREET:
                                                                                                                                                             ADDRESSEE: Cortis, Morris & Safford ADDRESSEE: c/o William S. Frommer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       No.
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                                                                                                                                                 530 Fifth Avenue
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PatentIn Release #1.0, Version #1.25
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Pred. No. 55;
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Pred. No. 55;
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US-08-709-209-423
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TELEFAX: (212) 840-333
TELEFAX: (212) 840-0712
INFORMATION FOR SEQ ID NO: 423:.
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base 7110
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Best Local Similarity
Matches 7; Conserv
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: Frommer, William S.
REGISTRATION NUMBER: 25,506
REFERENCE/DOCKET NUMBER: 4543
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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PRIOR APPLICATION UNMBER: US 07/847,951
                                                                                                                                                                                                                                                    CLASSIFICATION: 424 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 06-MAR-1992 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES:
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                                                                                                                                                                                                 APPLICATION NUMBER: US 08/105,483 FILING DATE: 12-AUG-1993 APPLICATION NUMBER: US 07/847,951
                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/709,209 FILING DATE: 21-AUG-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: New York
STATE: NY
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TYPE: nucleic acid
STRANDEDNESS: single
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IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                 21-AUG-1996
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100.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Enzo
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                                                                                                                 454310-2400
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RESULT 58
US-08-458-101-423
; Sequence 423, Application US/08458101
; Patent No. 5766599
; GENERAL INFORMATION:
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US-08-303-275-131
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TELEPHONE: (212) 840-333
TELEPAX: (212) 840-0712
INFORMATION FOR SEQ ID NO: 131:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 7; Conserv
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FILING DATE:
CLASSIFICATION: 424
ERIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/897,382
FILING DATE: 11-JUN-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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TITLE OF INVENTION: IMMUNODEFICIENCY VIRUS RECOMBINANT
TITLE OF INVENTION: POXVIRUS VACCINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET: 550
CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Frommer, William S.
REGISTRATION NUMBER: 25,506
REFERENCE/DOCKET NUMBER: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             / Match 35.0%;
Local Similarity 100.0%;
les 7; Conservative (
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TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: C/o William S. Frommer
                                                                                                                                                                                                                                         11 GGCCAAA 17
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100.0%; Pr
                                                                                                                                                                                                                                                                                                            Score 7; I
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                                                                                                                            GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and
TITLE OF INVENTION: Gene Sequenting Seque
                                                                                                                                                                                                                                                                                                            Patent No.
                                                                                                                                                                                                                                                                                                            Sequence 106, Application US/08859954 Patent No. 6083695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEPHONE: (212) 840-33:
TELEFAX: (212) 840-0712
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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                                                                             CORRESPONDENCE ADDRESS: Jaworski L.L.P.
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LENGTH: 8 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION: TELEPHONE: (212) 840-3333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/00 FILING DATE: 01-JUN-1995 CLASSIFICATION: 424 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS
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STRANDEDNESS: SIN
                                                           STREET:
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REGISTRATION NUMBER: 25,506
REFERENCE/DOCKET NUMBER: 454310-2740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: 530 Fif
CITY: New York
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ZIP: 10036
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                               Houston
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                                                        1301 McKinney, Suite 5100
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Audonnet, Jean-Christophe Francis
Gettig, Russell Robert
VENTION: GENETICALLY ENGINEERED VACCINE
VENTION: STRAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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Limbach, Keith J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Johnson, Gerard P. Pincus, Steven E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Riviere, Michel
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 7; DB 1; Length 8; Pred. No. 1.6e+02;
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DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-106
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APPLICANT:
                           FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Plopy disk
COMPUTER: PROCOMPATION
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                               STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095
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TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
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PRIOR APPLICATION NUMBER:
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ZIP: 77010-3095
COMPUTER READABLE FORM:
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TTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                      ADDRESSEE:
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TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
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                                                                                                                                                                                                                                                                     Houston
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                                                                                                                                                                                                                                                                                 3: Fulbright & Jaworski L.L.P.
1301 McKinney, Suite 5100
                                                                                                                                                                                                                                                                                                                                                                                                                     Hardin,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Application US/08859954
                                                                                                                                                                                                                                                                                                                                                                                    Homayouni, Ramin
Hardin, Paul E.
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Thomas D.
Thomas D.
Thomas D.
THARER: 32,714
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                                 08/632,782
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Pred. No.
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TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                        INFORMATION FOR SEQ ID NO:
                                                                                                                                                      NAME: Fraser, Janis K.
REGISTRAFION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
                                                                                                                                                                                                                                                                                 FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/240,382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HYPOTHETICAL: Y. ANTI-SENSE: YES
MOLECULE TYPE:
                                                                                   SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                              APPLICATION NUMBER: 08/2/
FILING DATE: 10 May 1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PS/2 Model 50Z or 55S
OPERATING SYSTEM: MS-DOS (Version 5
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
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COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: other nucleic acid DESCRIPTION: /desc = "oligonucleotide"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                MEDIUM TYPE: 3.5" DISKELLE, - S55X COMPUTER: IBM PS/2 Model 50Z or 555X COMPUTER: MS-DOS (Version 5.1)
                               STRANDEDNESS:
                                                TYPE: nucleic acid
                                                                                                                                       TELEFAX:
                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Paul, Thomas D. REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PLICANT: Moradpour, TLE OF INVENTION: A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER:
              TOPOLOGY:
                                                                 LENGTH:
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                                                                 8 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         225 Franklin Street
                                                                                                                                         (617) 542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Wakita, Takaji
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100.0%; Pred. No.
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1.6e+02;
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Query Match
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                                                               US-08-859-954-107
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Sequence 107, Application US/08859954
Patent No. 6083695
GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
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Best Local Similarity
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NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-59
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                      MOLECULE TYPE: other nucleic acid DESCRIPTION: /desc = "oligonucleotide" HYPOTHETICAL: YES ANTI-SENSE: YES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
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TITLE OF INVENTION: Design and Optimized Primer Librar
TITLE OF INVENTION: Gene Sequencing and Method Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
PRIOR APPLICATION DATA:
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STREET: 1301 M
CITY: Houston
                                                                                                                                                                                                                                                                                                                                                    LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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ZIP: 77010-3095
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                                                                                                                              GGCAAAGT 8
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1301 McKinney, Suite 5100
                                                                                                                                                                                              Conservative
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GENERAL INFORMATION:
APPLICANT: Kern, Scott
APPLICANT: Dai, Jia Le
APPLICANT: Dai, Jia Le
APPLICANT: Dai, Jia Le
APPLICANT: Vogelstein, Bert
APPLICANT: Vogelstein, Bert
APPLICANT: Vogelstein, Bert
ITILE OF INVENTION: Human SMAD3 and SMAD4 are
ITILE OF INVENTION: sequence-specific transcription activators
FILE REFERENCE: 01107, 74098
CURRENT APPLICATION NUMBER: US/09/041,675A
CURRENT FILING DATE: 1998-03-13
NUMBER OF SEQ ID NOS: 27
SOFTMARE: FastSEQ for Windows Version 3.0
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Best Local Similarity
Watches 7; Conserva
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                                                           SOFTWARE:
                                                                                                                                                                                                                                                                                                                                               Sequence 9, Application US/09041675A Patent No. 6100032
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INFORMATION FOR SEQ ID NO:
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                         TYPE: DI
ORGANISM: Artificial Sequence
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APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Librar
TITLE OF INVENTION: Gene Sequencing and Method Thereof
NUMBER OF SEQUENCES: 566
CORRESPONDENCE ADDRESS:
ADDRESSE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
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LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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APPLICATION NUMBER: 08/6:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
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REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-
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87.5%;
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Pred. No. 1.6e+02;
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APPLICANT: Vogelstein, Bert
APPLICANT: Kinzler, Kenneth
TITLE OF INVENTION: Human SWAD3 and SWAD4 are
TITLE OF INVENTION: Human SWAD3 and SWAD4 are
TITLE OF INVENTION: sequence-specific transcription activators
FILE REFERENCE: 01107.74098
CURRENT APPLICATION NUMBER: US/09/041,675A
CURRENT FILING DATE: 1998-03-13
NUMBER OF SEQ ID NOS: 27
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 15
                                                                                                         SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 23
                                                                                                                                                                                                                                                                                                                                                       Sequence 23, Application US/09041675A Patent No. 6100032
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Best Local
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Best Local
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APPLICANT: Zawel, Leigh
APPLICANT: Zawel, Leigh
APPLICANT: Dai, Jia Le
APPLICANT: Wogelstein, Bert
APPLICANT: Kinzler, Kenneth
TITLE OF INVENTION: Human SMAD3 and SMAD4 are
TITLE OF INVENTION: sequence-specific transcription activators
FILE REFERENCE: 01107.74098
                                                                                                                                           NUMBER OF SEQ ID NOS:
                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/041,675A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Kern, Scott
APPLICANT: Zawel, Leigh
                                       LENGTH: 8
TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA ORGANISM: Artificial Sequence
OTHER INFORMATION: synthetic random oligonucleotides selected OTHER INFORMATION: binding to human SMAD3 or human SMAD4
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                                      FEATURE:
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Pred. No. 1.6e
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Pred. No. 1
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.6e+02;
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SEQ ID NO 10
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Query Match
Best Local S
Matches 4
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CURRENT APPLICATION NUMBER: US/08/646,301A
CURRENT FILING DATE: 1996-05-16
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Patentin Ver: 2.1
SEQ ID NO 10
                                                                                                                                                                                                                                                                                 APPLICANT: Richards, Cyntr
APPLICANT: Huber, Brian E.
TITLE OF INVENTION: Transc
Patent No. 6194211 Antige
TITLE OF INVENTION: Antige
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Matches
                                                                             OTHER INFORMATION: Description of Artificial Sequence: consensus OTHER INFORMATION: sequence B4 from DNA Sequence 1:3-11 (1990). Patent No. 6194211
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OTHER INFORMATION: sequence
Patent No. 6194211
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TITLE OF INVENTION:
FILE REFERENCE: PB1
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Best Local :
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APPLICANT: Huber, Brian E.
                                                                                                                                        LENGTH: 8
TYPE: DNA
ORGANISM: Artificial Sequence
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TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                              FEATURE:
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              Similarity
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Score 6.4; DB Pred. No. 1.6e.
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Pred. No. 1.6e+02;
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Pred. No. 1
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1.6e+02;
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Sequence 1:3-11 (1990).
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                                                RESULT 71
US-08-522-384-63
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Best Local S
Matches 7
Sequence 63, Application US/08522384 Patent No. 6110667 GENERAL INFORMATION:
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Best Local Similarity
Matches 7; Conserv
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SEQ ID NO 39
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Patent No. 6284466
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Pacent No. 6284466
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TITLE OF INVENTION: HIGH RESOLUTION GENOME SCANNING
FILE REFERENCE: UNL 2963
CURRENT APPLICATION NUMBER: US/09/398,499
CURRENT FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101,011
PRIOR APPLICATION NUMBER: 60/101,011
PRIOR FILING DATE: 1998-09-18
NUMBER OF SEQ ID NOS: 58
                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Benson, Andrew K.
TITLE OF INVENTION: HIGH RESOLUTION GENOY
FILE REFERENCE: UNL 2963
CURRENT APPLICATION NUMBER: US/09/398,499
CURRENT FILING DATE: 1999-09-17
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PRIOR FILING DATE: 1998-09-18
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                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                                   TYPE: DNA
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87.5%;
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Pred. No. 1.6e+02;
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Pred. No. 1
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.6e+02;
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CURRENT APPLICATION NUMBER: US/08/522,384
CURRENT FILING DATE: 1996-11-15
NUMBER OF SEQ ID NOS: 122
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 63
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Best Local (
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APPLICANT: NIGAM, SANJAY KUMAR
TITLE OF INVENTION: PROCESSES, APPARATUS AND COMPOSITIONS FOR
TITLE OF INVENTION: CHARACTERIZING NUCLEOTIDE SEQUENCES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 10
TYPE: DNA
ORGANISM: Unknown Organism
FEATURE:
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                             CURRENT APPLICATION NUMBER FILING PARTS
                                         REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 400
                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
                                                                                            FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
                                                                                                                                                              CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION:
TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES:
               TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: U.S.A.
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Stinchcomb, Dan T.
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Pred. No. 54;
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; ORGANISM: Mus sp
US-09-371-772B-3450
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US-08-584-040-7661
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APPLICANT: Escobedo, Jaime
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT FILING NUMBER: US/09/371,7728
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR TILING DATE: 1995-10-26
PRIOR FILING DATE: 1995-01-08
PRIOR FILING DATE: 1995-01-08
PRIOR FILING DATE: 1995-01-08
SUJMBER OF SEQ ID NOS: 14225
SOFTWARE: Patentin version 3.0
SEQ ID NO 3450
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Best Local Similarity 87.5%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                             Sequence 34,
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Patent No. 6500-
Patent INFORMATION:
                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Ribozyme Pharmaceuticals, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                tent No.
                                                                                                ent No. 5552270
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity hes 7; Conserv
                                                                                                                                                    TLE OF INVENTION:
                              CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: nucleic acid
STRANDEDNESS: sing
TOPOLOGY: linear
                                                                  STREET:
                 COUNTRY:
                                                                                ADDRESSEE:
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10023
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Stinchcomb, Dan
Escobedo, Jaime
                                                                                                                                                                                                                                                                                                                                              Application US/07949541A
                                                                  26 West 61st Street
                                                                                                                                                                  Mirzabekov, Andrei D.
VENTION: Method for Determining,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                 USA
                                                                                                                                                                                                   Florentiev, Vladimir L.
                                                                                                                                                                                                                                        Ershov,
                                                                                                                                                                                                                                                                       Khrapko, Konstantin R.
Khorlin, Alexandr A.
                                                                                                                                                                                                                                                        Ivanov, Igor B.
                                                                                                                                                                                                                          Lysov, Jury P
                                                                                    Ladas & Parry
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                                                                                                                                                                                                                                        Gennady M.
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                                                                                                                                                    Sequence and
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -07-949-541A-39/c
                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                             APPLICANT: Florentic APPLICANT: Mirzabeko TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REGISTRATION NUMBER: 33,778
REFERENCE/DOCKET NUMBER: U-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 708-1800
TELEFAX: (212) 246-8959
                                                                    ZIP: 10023
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: chemically synthesized MOLECULE TYPE: desoxyribooligonucleotide. FEATURE: oligonucleotide was synthesized by phosphoroamidite FEATURE: method.
                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 8 bases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 18-Mar-1992
APPLICATION UNMBER: Russian Federation 4919321
FILING DATE: 18-Mar-1991
ATTORNEY/AGENT INFORMATION:
NAME: Janet I. Cord
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/07/949,541A FILING DATE: 09-No. 5552270-1992 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
OPERATING SYSTEM: DOS
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
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OPERATING SYSTEM:
                                                     COMPUTER:
                                                                                                                                                                  STREET: 26 West 61st Street CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE: Diskette, 5.25 inch, 360 COMPUTER: IBM PC/XT/AT or compatibles
                                                                                                                             COUNTRY:
                                                                                                                                                                                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER:
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                                                                                                                                               New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Application US/07949541A
                                                                                                                               USA
                                                                                                                                                                                                                                                                         Florentiev, Vladimir L.
Mirzabekov, Andrei D.
VENTION: Method for Determining a DNA Nucleotide
PENTION: Sequence and a Device for Carrying Out Same
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                                                                                                                                                                                                                                                                                                                                                                                       Ivanov,
                                                                                                                                                                                                                                                                                                                                                                                                       Khorlin, Alexandr A.
                                                     E: Diskette, 5.25 inch, 360
IBM PC/XT/AT or compatibles
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                                                                                                                                                                                                                                                                                                                 Jury P. Vladimir L.
                                                                                                                                                                                                                                                                                                                                                                    Gennady M.
                                                                                                                                                                                                                                                                                                                                                                                         Igor B.
                                                                                                                                                                                                                                                                                                                                                                                                                            Konstantin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30.0%; Score 6; DB 1; Le 100.0%; Pred. No. 1.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         letter M means the tethering to the support via oxidized 3-methyluridine
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                                                                        360 Kb storage
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US-08-593-345B-13/c
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FILING DATE:
PRIOR APPLICATION UNMBER: PCT/RU92/00052
APPLICATION NUMBER: PCT/RU92/00052
FILING DATE: 18-Mar-1992
APPLICATION NUMBER: Russian Federation 4919321
FILING DATE: 18-Mar-1991
ATTORNEY/Acent INFORMATION:
NAME: Janet I. Cord
NAME: Janet I. Cord
NAME: 33,778
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Best Local Similarity
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                                                                                               COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh 7.1
SOFTWARE: Wordporfect:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/593,345B
FILING DATE: 29-JAN-96
PRIOR APPLICATION DATA: No. 5851772e
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY. Linear MOLECULE TYPE: chemically synthesized MOLECULE TYPE: desoxyribooligonuclectide. FEATURE: oligonuclectide was synthesized by phosphoroamidite FEATURE: method.

OTHER INFORMATION: letter M means the tethering to the OTHER INFORMATION: support via oxidized 3-methyluridine.
NAME: Cherskov, Michael J.
REGISTRATION NUMBER: 33,664
REFERENCE/DOCKET NUMBER: ANL-IN-95-029+30
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 621-1330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REGISTRATION NUMBER: 33,778
REFERENCE/DOCKET NUMBER: U-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 708-1800
                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: 3.50 inch, 1.4 MB storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Dubiley, Svetlana A
TITLE OF INVENTION: A Microchip Method for the Enrichment of
TITLE OF INVENTION: Specific DNA Sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: 12.
TELEFAX: 233288
                                                                                                                                                                                                                                                                                                                                               CITY: Chicago
STATE: Illinois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: (212) 246-8959
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: nucleic acid
STRANDEDNESS: single
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Shick, Valentine V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mirzabekov, Andrei D
                                                                                                                                                                                                                                                                                                                                                                                                         CHERSKOV & FLAYNIK
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; Pred. No. 1.6e+02;
0; Mismatches 0;
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                                                                                    Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tent No.
           MOLECULE TYPE: other nucleic acid DESCRIPTION: /desc = "oligonucleotide" HYPOTHETICAL: YES
                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library
TITLE OF INVENTION: Gene Sequencing and Method Thereof
                                                                                                                                                                         TELEPHONE: 713/651-5325
                                                                                                                                                                                                                          FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,
                                                                                                                                                                                                                                                                                                            CLASSIFICATION: PRIOR APPLICATION DATA:
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ANTI-SENSE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IDENTIFICATION METHOD: Similarity with known sequences OTHER INFORMATION: Complementarity with primer of OTHER INFORMATION: exons to a-thalassemia gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: U.S.A. ZIP: 77010-3095
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: Houston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY:
LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: nucleic acid
STRANDEDNESS: No. 5851772 Applicable
TOPOLOGY: linear
                                                                            STRANDEDNESS: single
                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
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                                                             TOPOLOGY:
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1301 McKinney, Suite 5100
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100.0%; Pred. No.
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o. 1.6e+02;
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US-08-859-954-53

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Query Match
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US-08-859-954-104
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US-08-859-954-81
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US-08-859-954-81/c
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Sequence 104, Application US/08859954
Patent No. 6083695
GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
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APPLICANT: Hardin, Susan H
APPLICANT: Homayouni, Ramii
APPLICANT: Hardin, Paul E.
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                      DESCRIPTION YES
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
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APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                    MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
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ADDRESSEE: Fulbright & Jaworski L.L.P.
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                                                                                                                                                                                                                                                                                                                            STRANDEDNESS: single
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REFERENCE/DOCKET NUMBER: D-5900
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CITY: Houston
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                                                                                                                                                                                 30.0%; Score 6; DB ilarity 100.0%; Pred. No. 1. Conservative 0; Mismatches
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No. 1.6e+02;
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APPLICANT: Hardin, Susan H.
APPLICANT: Hardin, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and
TITLE OF INVENTION: Gene Sequentions of SEQUENCES: 566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Patent No. 6083695
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Matches 6; Conser
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
TELEPAX: 713/651-5246
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ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,
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CLASSIFICATION:
PRIOR APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
OPERATING TO THE T
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                                                                                                                  COUNTRY: U.S.A. ZIP: 77010-3095
                                                                                                                                                                                           CITY: Houston
STATE: Texas
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ZIP: 77010-3095
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1301 McKinney, Suite 5100
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1301 McKinney, Suite 5100
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Hardin, Paul E
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Gene Sequencing and Method Thereof
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100.0%; Pred. No.
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APPLICATED APPLICATION:
FILING DATE:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REGISTRATION NUMBER: D-5900
TELECOMMUNICATION INFORMATION:
TTOHONE: 713/651-5325
                                                                                                                                          COUNTRY: U.S.A.
ZIP: 77010-3095
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
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Best Local Similarity
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
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APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
TITLE OF INVENTION: Gene Sequencing and Method Thereof
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NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,
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APPLICATION NUMBER:
FILING DATE:
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CITY: Houston
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STRANDEDNESS: single
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ER: D-9
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o. 1.6e+02;
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                                                    ; ANTI-SENSE: US-08-859-954-333
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Best Local Similarity 10v.
                                                                                                                                                     TELEPHONE: 713/651-5325
TELEPAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 3
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Patent No. 6083695
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 08/632,78
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-59
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 8 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: I
APPLICANT: I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: U.S.A.
ZIP: 77010-3095
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: JEM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
TITLE OF INVENTION: Gene Sequencing and Method Thereof
NUMBER OF SEQUENCES: 566
                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
                                                                                                                                        TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE:
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TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/08/859,954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE:
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1301 McKinney, Suite 5100
                                                                                                                                         linear
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30.0%;
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Score 6;
Pred. No.
DB 1; Length 8;
). 1.6e+02;
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o. 1.6e+02;
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US-08-859-954-360
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                                                                                               US-08-859-954-396
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                                                    Sequence 396, Application US/08859954
Patent No. 6083695
GENERAL INFORMATION:
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                                                                                                                                                                                                                                 Query Match
Best Local Similarity
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATE:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
ATTORNEY Paul, Thomas D.
714
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                            HYPOTHETICAL: YES ANTI-SENSE: YES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
ADDRESSEE: And McKinney, Suite 5100
                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: other nucleic acid

DESCRIPTION: /desc = "olgionucleotide"

HYPOTHETICAL: YES
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TELECOMMUNICATION INFORMATION:
          APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
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IIILE OF INVENTION: Gene Sequencing and Method Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Hardin, Paul E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095
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                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear
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Homayouni, Ramin
Hardin, Paul E.
                                   Hardin, Susan H.
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k; Pred. No. 1.6
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o. 1.6e+02;
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Search completed: November 10, 2003, 08:03:59 Job time: 1 secs
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
                                                                                                                                                                                                                 HYPOTHETICAL:
ANTI-SENSE: 1
                                                                                                                                                                                                                                              MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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TITLE OF INVENTION: Ge:
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION: TELEPHONE: 713/651-5325
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APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                               LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: U.S.A. ZIP: 77010-3095
                                                                                                                                                                                                                                                                                   TOPOLOGY:
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                                                                                                11 GGCCAA 16
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1301 McKinney, Suite 5100
                                                                                                                                 Conservative
                                                                                                                                                                                                                   YES
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Gene Sequencing and Method Thereof
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Pred. No. 1.6e+02
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Result
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Maximum Match 100%
Listing first 86 summaries
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Maximum DB
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Perfect score:
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       Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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Match
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 US-09-774-809-31
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US-10-107-995-311
US-11-020-038-6
US-10-200-038-6
US-10-200-038-6
US-10-330-627-1411
US-09-263-959-437
US-10-005-212-7
US-10-330-627-420
US-10-330-627-422
US-10-330-627-123
US-10-033-145-1326
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                Sequence 31, Appl Sequence 42, Appl Sequence 463, Appl Sequence 311, App Sequence 311, App Sequence 56, Appl Sequence 1410, App Sequence 1411, App Sequence 7, Appl Sequence 7, Appl Sequence 1619, App Sequence 417, App Sequence 420, App Sequence 421, App Sequence 421, App Sequence 422, App Sequence 422, App Sequence 1234, App Sequence 1231, App Sequence 1234, App Sequence 1234, App Sequence 1236, App Sequence 426, Appli Sequence 4374, App Sequence 2374, App Sequence
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ALIGNMENTS

RESULT 1

US-09-774-809-31

US-09-774-809-31

Sequence 31, Application US/09774809

Publication No. US2003004120A1

GENERAL INFORMATION:
APPLICANT: McKay, Robert A.
APPLICANT: Dean, Nicholas M.
APPLICANT: Mero, Pam

APPLICANT: Mero, Pam

APPLICANT: Gearde, William A.
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
FILE REFERENCE: ISPH-0412
CURRENT APPLICATION NUMBER: US/09/774,809

CURRENT FILING DATE: 2001-01-31

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                                                                                                                                                                    RESULT 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: 09/396,902
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: 09/130,616
PRIOR FILING DATE: 1998-08-07
PRIOR APPLICATION NUMBER: 08/910,629
PRIOR FILING DATE: 1997-08-03
       Sequence 463, Application US/09888326
Publication No. US20030026801A1
GENERAL INFORMATION:
APPLICANT: Weiner, George
APPLICANT: Hartmann, Gunther
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
TITLE OF INVENTION: Cell Lysis and Treating Cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 165
SEQ ID NO 42
LENGTH: 20
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PRIOR FILING DATE: 1997-08-03
NUMBER OF SEQ ID NOS: 165
SEQ ID NO 31
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
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PRIOR TILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: 09/130,616
PRIOR FILING DATE: 1998-08-07
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APPLICANT: Dean, Nicholas M.
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CURRENT FILING DATE: 2001-01-31
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APPLICANT: Gaarde, William A.
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: ISPH-0412
                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence
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REFERENCE: C10 9/7052 (AWS)
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Nero, Pam
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100.0%; Pred. No.
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Pred. No. 0.0
0; Mismatches
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          Sequence 301, Application US/10112653

Publication No. US20030050268A1

GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.

APPLICANT: Berg, Daniel J.

APPLICANT: Berg, Daniel J.

APPLICANT: Berg, Daniel J.

TITLE OF INVENTION: IMMUNOSTINULATORY NUCLEIC ACID FOR TITLE OF INVENTION: TREATMENT OF NON-ALLERGIC INFLAMMATORY DISEASES FILE REFERENCE: C01039/70060(AWS)

CURRENT APPLICATION NUMBER: US/10/112,653

CURRENT FILING DATE: 2002-03-29

CURRENT FILING DATE: 2002-03-29
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Matches
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SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 311
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SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 463
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Best Local
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CURRENT APPLICATION NUMBER: US/09/776,479
CURRENT FILING DATE: 2001-02-02
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CURRENT FILING DATE: 2001-06-22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Bratzler, Robert L. APPLICANT: Petersen, Deanna M. APPLICANT: Fouron, Yves
PRIOR APPLICATION NUMBER: US 60/279,642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: phosphorothioate backbone
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Pred. No. 0.
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Pred. No. 0.076;
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                                                        ; OTHER INFORMATION: Antisense Oligonucleotide US-10-007-010-56
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US-10-112-653-301
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PRIOR FILING DATE: 2001-12-18
PRIOR FILING DATE: 2000-12-14
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FASCSEQ for Windows Version 3.0
SEQ ID NO 311
LENGTH: 20
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Best Local S
Matches 20
                                                                                         CURRENT APPLICATION NUMBER: US/10/007,010
CURRENT FILING DATE: 2001-12-04
NUMBER OF SEQ ID NOS: 87
SEQ ID NO 56
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                          Sequence 56, Application US/10007010
Publication No. US20030125275A1
GENERAL INFORMATION:
APPLICANT: Alexander H. Borchers
APPLICANT: Kenneth W. Dobie
TITLE OF INVENTION: ANTISENSE MODULATION OF HCK EXPRESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 311, Applic Publication No. US20 GENERAL INFORMATION:
 Query Match
Best Local Similarity
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SOFTWARE: FRANKSEQ for Windows Version 3.0
SEQ ID NO 301
LENGTH: 20
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Best Local Similarity
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TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
FILE REFERENCE: C1037/7025 (HCL/MAT)

CURRENT APPLICATION NUMBER: US/10/017,995

CURRENT FILING DATE: 2001-12-18
                                                                                                                                                                                                                                                 FILE REFERENCE: RTS-0345
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o. US20030055014A1
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100.0%;
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Score 17;
Pred. No.
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 DB 1;
0.59;
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                                                           Best Loc
Matches
                                                                                                                                                                                NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1410
                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1410, Application US/10330627 Publication No. US20030175771A1
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SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 6
LENGTH: 17
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APPLICANT: Elledge, Stephen J.
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Publication No. US20020156247A1
                                                                        Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                         FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT FILING DATE: 2001-12-12
PRIOR APPLICATION NUMBER: US/09/488,364
PRIOR FILING DATE: 2000-01-12
                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: US 09/448,480 PRIOR FILING DATE: 1999-11-24
                                                                                                                                                                                                                                                                                                      APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/10/020,038
CURRENT FILING DATE: 2001-12-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Sanchez, Yolanda
TITLE OF INVENTION: MAMMALIAN CHECKPOINT GENES AND PROTEINS
FILE REFERENCE: 120541-1013
                                                                                                                                                   TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
                                                                                                                                                                  LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: Description of Artificial Sequence:
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10 TCCGGGCCAG
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Pred. No.
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Pred. No. 3
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RESULT 10 US-10-330-627-1411/c - Sequence 1411, Application US/10330627

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APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1411
LENGTH: 10
Query Match
Best Local Similarity
Thes 10; Conserva
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                                                                                               US-09-263-959-437
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                                                                                                                                  TELEPAX: (200, 1 INFORMATION FOR SEQ ID NO: 4 SEQUENCE CHARACTERISTICS: LENGTH: 12 base pairs TYPE: nucleic acid TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                      ZIP: 98104-7092
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Flappy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                       NAME: NCMASters, David, D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 920010.426C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 622-631
                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/09/263,959
FILING DATE: 05-MAR-1999
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH UTI
NUMBER OF SEQUENCES: 1279
CORRESPONDENCE ADDRESS:
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                                                                                                           STRANDEDNESS: sir
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/: US
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                    Conservative
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Koop, Ben F.
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                                    50.0%; Score 10; DB 1; Length 12; 100.0%; Pred. No. 11;
                  Mismatches
                  0;
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APPLICANT: GILLIES, Stephen D
APPLICANT: LAN, Yan
APPLICANT: LO, Kin-Ming
TITLE OF INVENTION: Inmune Therapy and General Immune Stimulation
FILE REFERENCE: LEX-002C1
                                                                                                                                                                                 SOFTWARE: PatentIn version 3.0
SEQ ID NO 1619
LENGTH: 10
                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
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Best Local Similarity
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                                                                Matches
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Best Local
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CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: USSN 08/986,997
PRIOR FILING DATE: 1997-12-08
NUMBER OF SEQ ID NOS: 10
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                            APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/10/005,212 CURRENT FILING DATE: 2001-12-04
                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: PREPARATION AND USE OF FILE REFERENCE: GA0201C
                                                                                                                                                                      TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence FEATURE:
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10 AGGCCAAAG 2
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                                                              ilarity 100.0%; I Conservative 0;
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Pred. No. 16;
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RESULT 14 US-10-055-728-15/c

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; OTHER INFORMATION: TAG sequence Hs74649
US-10-055-728-15
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SEQ ID NO 15
LENGTH: 11
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Publication No. US20030170720A1
                                                                                                                                                                                                                                                                                                  COUNTRY: US
ZIP: 98104-7092
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
COMPUTER: PC-DOS/MS-DOS
COMPUTER: PC-DOS/MS-DOS
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NUMBER OF SEQ ID NOS: 156
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PRIOR FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: EP 0120373.2
PRIOR FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: EP 01200228.3
PRIOR FILING DATE: 2001-01-23
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TITLE OF INVENTION: MEANS AND METHODS FOR TREATMENT EVALUATION
FILE REFERENCE: 5244US (REN/P55190US00)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ENERAL INFORMATION:
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APPLICANT: Cornelissen, Marion
                                                    TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          equence 437, Application US/09263959 tent No. US20020150891A1
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ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                      SUPTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/263,959
FILING DATE: 05-MAR-1900
CLASSTET----
                                                                                                              REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 91
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 1
                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: ....
STREET: Seattle
                                                                                                                                                                      NAME: McMasters, David
REGISTRATION NUMBER: 3:
                                                                                                                                                                                                                                    CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE:
                                      ENGTH:
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nucleic acid
EDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  E: Seed and Berry LLP 6300 Columbia Center,
                                      12 base pairs
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Koop, Ben F.
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100.0%;
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                                                                                                                       ; OTHER INFORMATION: Synthetic oligonucleotide US-10-329-465-204
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                                                                                                                                                                                                                                                                                                                                                                                       Sequence 204, Application US/10329465 Publication No. US20030165949A1 GENERAL INFORMATION:
                                                                                                                                                                                                                SOFTWARE: PatentIn version 3.1 SEQ ID NO 204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/10/007,010
CURRENT FILING DATE: 2001-12-04
NUMBER OF SEQ ID NOS: 87
SEQ ID NO 56
SEQ ID NO 56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 56, Application US/10007010 Publication No. US20030125275A1 GENERAL INFORMATION:
                                                             Matches
                                                                            Query Match
Best Local
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Best Local Similarity
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                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: US 60/343,826 PRIOR FILING DATE: 2001-12-27
                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/10/329,465
CURRENT FILING DATE: 2002-12-23
                                                                                                                                                                                                                                                                                                                         APPLICANT: Wang et al.
TITLE OF INVENTION: GENES ABNORMALLY EXPRESSED IN MYELOID LEUKEMIA CELLS WITH AN MLL-1
TITLE OF INVENTION: FUSION
FILE REFERENCE: 27373/37928A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: ANTISENSE MODULATION OF HCK EXPRESSION FILE REFERENCE: RTS-0345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Alexander H. Borchers APPLICANT: Kenneth W. Dobie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                    ORGANISM: Artificial sequence FEATURE:
                                                                                                                                                                                     TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: Antisense Oligonucleotide
                                                                                                                                                                                                  LENGTH:
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                                                           Similarity 9; Conserv
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                                                                          Score 8.4; I
Pred. No. 17
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Pred. No. 46;
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Pred. No. 23;
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RESULT 18

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APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 420
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US-10-330-627-422
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US-10-330-627-421
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                                                                                                                                            Sequence 422, Application US/10330627 Publication No. US20030175771A1 GENERAL INFORMATION:
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APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE; 2002-12-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Velculescu, Victor E. APPLICANT: Kinzler, Kenneth W APPLICANT: Vogelstein, Bert TITLE OF INVENTION: Human Transc FILE REFERENCE: 001107.00319
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CURRENT FILING DATE: 2002-12-30
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Local Similarity 90.0%;
les 9; Conservation
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les 9; Conserv
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Pred. No. 1
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Query Match
Best Local Similarity
Thes 9; Conserve
; ORGANISM: Homo sapiens US-10-330-627-1228
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US-10-330-627-644
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APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
                                                                                                                                                                                                                                                                                    Sequence 1228, Application US/10330627
Publication No. US20030175771A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 644
                                                                       SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 1228
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 422
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                          APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
                                                                                                                          PRIOR APPLICATION NUMBER: US 09/448,480 PRIOR FILING DATE: 1999-11-24
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                                                                                                         NUMBER OF SEQ ID NOS: 1564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA ORGANISM: Homo sapiens
                                   TYPE: DNA
                                                  LENGTH: 10
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Pred. No. 17
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Query Match

42.0%; Score 8.4;

DB 1;

Length 10;

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Sequence 1230, Application US/10330627
Publication No. US20030175771A1
GENERAL INFORMATION:
APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
RESULT 25
US-10-330-627-1231/c .
, Sequence 1231, Application US/10330627
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US-10-330-627-1229/c
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                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1230
                                                                                                                                                                      Matches
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1229
LENGTH: 10
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Publication No. US20030175771A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: US 09/448,480 PRIOR FILING DATE: 1999-11-24
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APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
                                                                                                                                                                                                                                                                               LENGTH: 10
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Velculescu, Victor E. APPLICANT: Kinzler, Kenneth W
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Local Similarity 90.0%;
les 9; Conservative
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Pred. No. :
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Pred. No. 17;
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Sequence 1233, Application US/10330627
Publication No. US20030175771A1
GENERAL INFORMATION:
APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US/0/448,480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1232
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; ORGANISM: Homo sapiens
US-10-330-627-1232
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US-10-330-627-1232/c
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CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1231
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GENERAL INFORMATION:
APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
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Best Local Similarity 90.0%;
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APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
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TYPE: DNA
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Pred. No. 17;
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Pred. No. 1
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US-10-330-627-1234
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US-10-330-627-1233
                                                                       US-10-033-145-405
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SOFTWARE: FREESEQ for Windows Version 4.0
SEQ ID NO 1234
LENGTH: 10
TYPE: DNA
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1233
 Best Local Similarity
Matches 9; Conserve
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 405
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CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
                                                                                                                                                                                        PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
                                                                                                                                                                                                                                                                            APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Velculescu,
APPLICANT: Kinzler, K
APPLICANT: Vogelstein
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                                                                                     ORGANISM: Homo sapiens
                                                                                                       TYPE: DNA
                                                                                                                       LENGTH: 10
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Local Similarity 90.0%;
les 9; Conservative
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Vogelstein, Bert
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; Score 8.4; DB; Pred. No. 17; 0; Mismatches
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Pred. No. 1
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Pred. No.
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                                                                                                                                                ; OTHER INFORMATION: TAG sequence Hs78436 US-10-055-728-4
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-1326
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NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1226
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Publication No. US20
GENERAL INFORMATION:
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                                                                                       Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: van der Kuyl, Antoinette C.
APPLICANT: Cornelissen, Marion
TITLE OF INVENTION: MEANS AND METHODS FOR TREATMENT EVALUATION
FILE REFERENCE: 5244US (REN/P55190US00)
CURRENT APPLICATION NUMBER: US/10/055,728
CURRENT FILLING DATE: 2002-04-19
PRIOR APPLICATION NUMBER: 60/325,722
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CURRENT FILING DATE: 2001-11-05
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TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
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NUMBER OF SEQ ID NOS: 156
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                                                                                                                                                                                             TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                                         LENGTH: 11
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US20020151515A1
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Pred. No. 23;
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Pred. No. 1
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US-09-989-789-2424/c
; Sequence 2424, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF ITTLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
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NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2376
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APPLICANT: LIU, Qiang
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
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LENGTH: 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS FILE REFERENCE: 8325-001.20 / S11-US2 CURRENT APPLICATION NUMBER: US/09/989,789 CURRENT FILING DATE: 2002-03-25 NUMBER OF SEQ ID NOS: 4085 SOFTWARE: PALENTIN Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA ORGANISM: Artificial Sequence FEATURE:
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US-99-990-186-2376/c

Sequence 2376, Application US/09990186

Publication No. US20030068675A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS

FILE REFERENCE: 8325-0011.21 / S11-US3

CURRENT APPLICATION NUMBER: US/09/990,186

CURRENT APPLICATION NUMBER: US/09/990,186

CURRENT FILLNG DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 2376
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US-09-990-186-2374
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Matches
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TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2374
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FEATURE:
OTHER INFORMATION:
OTHER INFORMATION:
                                                             TYPE: DNA
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                                         ORGANISM: Artificial Sequence
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RESULT 38
US-09-989-994-2374/c
US-09-989-994-2374, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
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RESULT 39
US-09-989-994-2376/c
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Publication No. US20030068675A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
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Best Local (
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Best Local
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CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentin Ver. 2.0
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CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
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Similarity 100.0%;
8; Conservation
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o. 1e+02;
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Sequence 1228, Application US/10330627
Publication No. US20030175771A1
GENERAL INFORMATION:
APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
ITILE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
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Matches 8
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Publication No. US20030104526A1
GENERAL INFORMATION:
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CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PATCHLIN Ver. 2.0
SEQ ID NO 2376
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Best Local :
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TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
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TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
FILE REFERENCE: 8325-0011.20 / S11-US2
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TYPE: DNA
ORGANISM: Artificial Sequence
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8; Conserv
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Pred. No.
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PRIOR APPLICATION NUMBER: US 09/448,480

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Sequence 1230, Application US/10330627
Publication No. US20030175771A1
GENERAL INFORMATION:
APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOPTWARE: FABLSEQ for Windows Version 4.0
SEQ ID NO 1230
LENGTH: 10
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Publication No. US20030175771A1
GENERAL INFORMATION:
APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER: FILING DATE: 1999-11-24
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US-10-330-627-1230
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US-10-330-627-1228
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Best Local Similarity
Matches 8; Conserv
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NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1228
Query Match
Best Local Similarity
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TYPE: DNA
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Local Similarity 100.0%; For the second 
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0; Mismatches
Score 8; DB 1;
Pred. No. 22;
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Pred. No.
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FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1232
LENGTH: 10
TYPE: DNA
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GENERAL INFORMATION:
APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1231
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Best Local Similarity
Matches 8; Conserva
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US-10-330-627-1231
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Best Local S
Matches 8
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APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
                                                                                                                                                    ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 10
                                                                8; Conserv
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100.0%; Pred. No.
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100.0%; Pred. No.
cive 0; Mismatc
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RESULT 46
US-10-330-627-1233
; Sequence 1233, Application US/10330627
; Publication No. US20030175771A1

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Sequence 621, Application US/10330627
Publication No. US20030175771A1
GENERAL INFORMATION:
'APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT FAPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FASESEQ for Windows Version 4.0
SEQ ID NO 1234
LENGTH: 10
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CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24'
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1233
LENGTH: 10
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Matches
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Velculescu, Victor E. APPLICANT: Kinzler, Kenneth W APPLICANT: Vogelstein, Bert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Velculescu, Victo
APPLICANT: Kinzler, Kenneth
APPLICANT: Vogelstein, Bert
                      PRIOR APPLICATION NUMBER: US 09/448,480 PRIOR FILING DATE: 1999-11-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: Human Transcriptomes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
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les 8; Conserv
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SEQ ID NOS; 1564
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100.0%; Pr
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k; Pred. No. 22;
0; Mismatches
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0; Mismatches
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5. 22;
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Query Match
Best Local Similarity
Thes 8; Conserve
Query Match
Best Local Similarity
Thes 8; Conserve
                                                                                  ; ORGANISM: Homo sapiens US-10-330-627-877
                                                                                                                                                                               APPLICANT: Velculescu, Victor E.
APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 50
US-10-330-627-877/c
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Best Local Similarity
Thes 8; Conserv
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Publication No. US20030175771A1
GENERAL INFORMATION:
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 876
                                                                                                                                                   SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 877
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
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TYPE: DNA
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                                                                                                                                 LENGTH: 10
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100.0%; Pred. No. 22.
tive 0; Mismatches
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100.0%; Pred. No.
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o. 22;
                                                 DB 1;
                                               Length 10;
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APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1215
              US-10-438-683-6/c
US-10-438-683-6/c
; Sequence 6, Application US/10438683
; Publication No. US20030186923A1
; GENERAL INFORMATION:
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US-10-330-627-1214
                                                                                                                                                                                                                                                                                                                  ; ORGANISM: Homo sapiens
US-10-330-627-1215
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Best Local Similarity 100.0%; Sc
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PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 1214
LENGTH: 10
TYPE: DNA
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APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 0001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
                                                                                                                                                                                                                                                                                                                                                                              ENGTH: 10
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JAMES D. THOMPSON
                                                                                                                                                                                                                                     Score 8; DB 1; ; Pred. No. 22; 0; Mismatches
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Query Match
Best Local Similarity
Theomes 8; Conserve
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                                                           ; ORGANISM: Homo sapiens US-10-033-145-62
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                                                                                                              SOFTWARE: PatentIn version 3.0 SEQ ID NO 62 LENGTH: 10
                                                                                                                                                                                                                                                                                                                                                                                         Sequence 62, Application US/10033145
Publication No. US20020151515A1
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
                                                                                                                                                                                                                                                                                                                                  APPLICANT: GENZYME CORPORATION APPLICANT: ROBERTS, BRUCE
                                                                                                                                                                                                                                                                           FILE REFERENCE: GA02010
                                                                                                                                                                                                                                                                                           APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 10
                                                                                                 TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/07/882,885
FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 197/173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS: single TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: METHOD AND REAGENT FOR INHIBITING P-GLYCOPROTEIN mdr-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
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CLASSIFICATION: <Unknown>
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STATE: California
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40.0%;
100.0%;
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Score 8; [
Pred. No.
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o. 22;
                    DB 1;
                  Length 10;
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GENERAL INFORMATION:

APPLICANT: GENZYME CORPORATION

APPLICANT: ROBERTS, BRUCE

APPLICANT: SHANKARA, SRINIVAS

TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES

FILE REFERENCE: GAO201C

CURRENT APPLICATION NUMBER: US/10/033,145

CURRENT FILING DATE: 2001-11-05

PRIOR APPLICATION NUMBER: PCT/US99/13800

PRIOR FILING DATE: 1999-06-18

NUMBER OF SEQ ID NOS: 2137

SOFTWARE: PATENTIN VETSION 3.0

SEQ ID NO 1531

LENGTH: 10
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Best Local Similarity
Watches 8; Conserve
                                     RESULT 57
US-10-055-728-15
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; Sequence 1531; Application US/10033145
; Publication No. US20020151515A1
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US-10-033-145-1750
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Sequence 15, Application US/10055728
Publication No. US20030170720A1
                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PATENTIN VETSION 3.0
SEQ ID NO 1750
LENGTH: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1750, Application US/10033145 Publication No. US20020151515A1 GENERAL INFORMATION:
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                                                                                                                                                                                                      Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: GA0201C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
                                                                                                                                                                                                                                                                                              TYPE: DNA
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                                                                                                                10 GCCAGGCC 3
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Conservative
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100.0%; Pr
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Pred. No. 22;
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Pred. No.
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Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 6, Application US/10020038
Publication No. US20020156247A1
GENERAL INFORMATION:
APPLICANT: Elledge, Stephen J.
APPLICANT: Sanchez, Yolanda
TITLE OF INVENTION: MAMMALIAN CHECKPOINT GENES AND PROTEINS
FILE REFERENCE: 120541-1013
CURRENT APPLICATION NUMBER: US/10/020,038
CURRENT FILING DATE: 2001-12-12
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Best Local S
Matches
                                                                     Sequence 31, Applica Publication No. US20 GENERAL INFORMATION:
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SEQ ID NO 6
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Best Local Similarity
Matches 9; Conserv
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SEQ ID NO 15
LENGTH: 11
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              APPLICANT: McKay, Robert A.
APPLICANT: Dean, Nicholas M.
APPLICANT: Monia, Brett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: US/09/488,364
PRIOR FILING DATE: 2000-01-12
NUMBER OF SEQ ID NOS: 15
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PRIOR FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: EP 0120373.2
PRIOR FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: EP 01200228.3
PRIOR FILING DATE: 2001-01-23
NUMBER OF SEQ ID NOS: 156
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CURRENT FILING DATE: 2002-04-19
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APPLICANT: Cornelissen, Marion
TITLE OF INVENTION: MEANS AND METHODS FOR TREATMENT EVALUATION
   APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: 5244US (REN/P55190US00)
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                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Description of Artificial Sequence:
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                                                                                                    Application US/09774809
   Nero, Pam
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Pred. No. 53
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Pred. No. :
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Length 17

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Gaps

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Synthetic

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Length 11; Indels

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US-09-888-326-463/c

US-09-888-326-463/c

; Sequence 463, Application US/09888326

; Publication No. US20030026801A1
                                                                                                                                                                                                                                                                                                        ; OTHER INFORMATION: Synthetic Sequence US-09-774-809-42
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CURRENT FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: 09/396,902
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: 09/130,616
PRIOR APPLICATION NUMBER: 09/130,629
PRIOR APPLICATION NUMBER: 08/910,629
PRIOR APPLICATION NUMBER: 08/910,629
PRIOR FILING DATE: 1997-08-03
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SEQ ID NO 31
LENGTH: 20
TYPE: DNA
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Best Local Similarity
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SEQ ID NO 42
LENGTH: 20
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Publication No. US20030004120A1
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Best Local Similarity
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PRIOR APPLICATION NUMBER: 09/130,616
PRIOR FILING DATE: 1998-08-07
PRIOR APPLICATION NUMBER: 08/910,629
PRIOR FILING DATE: 1997-08-03
NUMBER OF SEQ ID NOS: 165
                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 20
TYPE: DNA
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CURRENT APPLICATION NUMBER: US/09/774,809
CURRENT FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: 09/396,902
PRIOR APPLICATION NUMBER: 09/396,902
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TITLE OF INVENTION: ANTISENSE OLIGONUCLECTIDE COMPOSITIONS AND METHODS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: McKay, Robert A. APPLICANT: Dean, Nicholas M.
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TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS

FITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
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APPLICANT: Nero, Pam
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APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
APPLICANT: Pouron, Yves
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
TITLE OF INVENTION: Treatment of Asthma and Allergy
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,991
PRIOR APPLICATION NUMBER: US 60/179,991
PRIOR APPLICATION NUMBER: US 60/179,991
PRIOR FILING DATE: 2000-02-03
NUMBER OF SEO ID NOS: 1093
SOFTWARE: FastSEQ for Windows Version 3.0
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RESULT 63
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SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 463
                                                                                                                                                  Matches
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Best Local Similarity
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Best Local (
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APPLICANT: Hartmann, Gunther
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
TITLE OF INVENTION: Cell Lysis and Treating Cancer
FILE REFERENCE: C1039/7052 (AWS)
CURRENT APPLICATION NUMBER: US/09/888,326
CURRENT FILING DATE: 2001-06-22
PRIOR APPLICATION NUMBER: US 60/213,346
PRIOR FILING DATE: 2000-06-22
PRIOR FILING DATE: 2000-06-22
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                                                                                                                                                                                                                                                                                LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
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TYPE: DNA
ORGANISM: Artificial Sequence
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71.4%;
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Pred. No. 46;
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Pred. No. 4
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; Sequence 301, Applic ; Publication No. US20 ; GENERAL INFORMATION: ; APPLICANT: Krieg, A

Application US/10112653 o. US20030050268A1

US-10-112-653-301/c

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US-09-989-789-2148
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US-10-017-995-311/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
FILE REFERENCE: C1037/7025 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/10/017,995
CURRENT FILING DATE: 2001-12-18
PRIOR APPLICATION NUMBER: US 60/255,534
PRIOR FILING DATE: 2000-12-14
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FASSSEQ for Windows Version 3.0
SEQ ID NO 311
LENGTH: 20
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Publication No. US20030055014A1
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
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                                     SOFTWARE: Patentin Ver. 2.0 SEQ ID NO 2148
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Patent No. US20020063379A1
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                                                                           APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILLING DATE: 2002-03-25
CURRENT FILLING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
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CURRENT APPLICATION NUMBER: US/10/112,653
CURRENT FILING DATE: 2002-03-29
CURRENT FILING DATE: 2002-03-29
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PRIOR APPLICATION NUMBER: US 60/279,642
PRIOR FILING DATE: 2001-03-29
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TYPE: DNA
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OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-2149
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Matches 8
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Publication No. US20030068675A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
                                                                                                                                                                                        SEQ ID NO 2148
LENGTH: 9
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Best Local
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CURRENT APPLICATION NUMBER: US/09/
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
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TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
                                                                                                          FEATURE:
OTHER INFORMATION:
OTHER INFORMATION:
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Pred. No. 1e+02;
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Pred. No. 1
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US-09-989-994-2148
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                                   Sequence 2149, Application US/09989994
Publication No. US20030104526A1
GENERAL INFORMATION:
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LENGTH: 9
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Best Local Similarity
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Publication No. US20030104526A1
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APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
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US-10-277-494-167
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                                                                                     CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GAOZOIC
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 167
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                                                      SOFTWARE: PatentIn version 3.0 SEQ ID NO 405
                                                                                                                                                                                                                                                                                      Sequence 405, A Publication No.
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CURRENT APPLICATION NUMBER: US/10/277,494
CURRENT FILING DATE: 2002-10-21
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ORGANISM: Artificial Sequence
FEATURE:
ORGANISM: Homo sapiens
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8; Conserv
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o. US20030186909A1
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Pred. No. 1e+02;
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Pred. No. le+02;
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APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
TITLE OF INVENTION: Human Transcriptomes
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1215
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CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 1214
LENGTH: 10
TYPE: DNA
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US-10-330-627-1214
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US-10-330-627-1215
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US-10-330-627-1214
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                                                               Matches
                                                                              Query Match
Best Local Similarity
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Publication No. US20030175771A1
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APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
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US-09-989-789-2396/c
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                                       US-09-989-789-2397/c
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                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PATENTIN VEY: 2.0
SEQ ID NO 2396
Sequence 2397, Application Patent No. US20020063379A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION: APPLICANT: LIU, Qiang
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SEQ ID NO 13
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Best Local
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CURRENT APPLICATION NUMBER: US/09/837,751
CURRENT FILING DATE: 2001-04-18
PRIOR APPLICATION NUMBER: US 60/198,124
PRIOR FILING DATE: 2000-04-18
NUMBER OF SEQ ID NOS: 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS FILE REFERENCE: 8325-0011.20 / S11-US2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Green, Allan
APPLICANT: Singh, Suri
APPLICANT: Liu, Qing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Liu, Qing
TITLE OF INVENTION: Method of Modifying the Content of Cottonseed Oil
                                                                                                                                                                                                                                                                                                                                                             LENGTH: 9
TYPE: DNA
                                                                                                                                                                                                                                                                                   OTHER INFORMATION: Description of Artificial Sequence: example target OTHER INFORMATION: DNA
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                   US/09989789
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Pred. No.
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GENERAL INFORMATION:

APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS

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GNN NUCLEOTIDE

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                                                                                                                                                                                                                                                                                                                  RESULT 79
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                                                    APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2397
LENGTH: 9
                                                                                                                                                                                                                                           Sequence 2397, Application US/09990186 Publication No. US20030068675A1 GENERAL INFORMATION:
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Matches
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CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 2397
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Best Local 9
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TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
FILE REFERENCE: 8325-0011.21 / S11-US3
CURRENT APPLICATION NUMBER: US/09/990,186
CURRENT FILLING DATE: 2001-11-20
CUMBER OF SEQ ID NOS: 4085
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ORGANISM: Artificial Sequence
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OTHER INFORMATION:
                                  ORGANISM: Artificial Sequence
OTHER INFORMATION: Description of Artificial Sequence: example target
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GENERAL INFORMATION:

APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION UMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 2396
LENGTH: 9
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US-09-989-994-2397
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US-09-989-994-2397/c
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                                                          Query Match
Best Local S
Matches 7
                                                                                                                                                                                                                           Sequence 2397, Application US/0998994
Publication No. US20030104526A1
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
FILE REFERENCE: 8225-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,994
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2397
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Best Local
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                                                                                                                                                                   TYPE: DNA ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE: OTHER INFORMATION: Description of Artificial Sequence: example target OTHER INFORMATION: DNA
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                                                                                                                                                                                                                 LENGTH:
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                                                                                                                                      Description of Artificial Sequence: example target DNA
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Pred. No.
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Pred. No.
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Pred. No.
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                                                                         DB 1;
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Publication NG. ...

Publication:

APPLICANT: GENZYME CORPORATION

APPLICANT: ROBERTS, BRUCE

APPLICANT: SHANKARA, SRINIVAS

TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES

TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
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Best Local Similarity
Thes 8; Conserve
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US-10-330-627-877
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US-10-330-627-877
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US-10-330-627-876
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PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 877
LENGTH: 10
                                                                                                                                                                    Sequence 1750, Application US/10033145 Publication No. US20020151515A1
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CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
NUMBER OF SEQ ID NOS: 1564
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W
APPLICANT: Vogelstein, Bert
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Human
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Local Similarity 80.0%;
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Pred. No. 4
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CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIN version 3.0
SEQ ID NO 1750
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-1750
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US-10-027-632-176277
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                                                                                                              Sequence 176277, Application US/10027632 GENERAL INFORMATION:
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Best Local
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Publication No. US20030204075A9
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Best Local
         APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
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TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
CURRENT FILING DATE:
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CURRENT FILING DATE: 2002-04-30
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PRIOR APPLICATION NUMBER: US 60/198,676
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US 60/146,002 FILING DATE: 1999-08-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 1999-09-28
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Pred. No. 1
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Pred. No. 42;
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PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR PILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR APPLICATION NUMBER: US 60/195,218
PRIOR APPLICATION NUMBER: US 60/185,218
PRIOR APPLICATION NUMBER: US 60/185,218
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
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PRIOR FILING DATE: 1999-09-11-23
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-09-12-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-09-12-28
PRIOR APPLICATION NUMBER: US 60/146,002
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PRIOR FILING DATE: 1999-09-12-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR APPLICATION NUMBER: US 60/
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REFERENCE
AUTHORS
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VERSION
KEYWORDS
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CD486474/c
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Maximum Match 100%
Listing first 1000
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Maximum DB
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is derived by analysis of the total score distribution.
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                Different Gene Expression Responses in Cotton Root and Hypocotyl cissues during infection with Fusarium Wilt Disease Unpublished (2003)

Contact: Caitriona Dowd, Helen McFadden Commonwealth Scientific and Industrial Research Organisation Division of Plant Industry Black Mountain Laboratories, Cnr Clunies Ross Street & Barry Driv Black Mountain, Camberra, ACT, 2601, Australia Tel: 61 2 6246 4914, 6246 5377

Fax: 61 2 6246 5000
                                                                                                                                                                                                        Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnollophyta; eudicotyledons; core eudicots; rosid; eurosids II; Malvales; Malvaceae; Malvoideae; Gossypium.

1 (bases 1 to 8)

Dowd, C., Wilson, I. and McFadden, H.
                                                                                                                                                                                                                                                                                                                                                                                                      CD486474 8 bp mRNA linear EST 04-JUN-CRH2.4F08 Cotton Root and Hypocotyl Lambda ZIPLOX Library (CRH) Gossypium hirsutum cDNA clone CRH2.4F08 5', mRNA sequence.
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Gossypium hirsutum
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Email: Caitriona.Dowd@csiro.au,
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Helen.McFadden@csiro.au
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Gossypium hirsutum cDNA clone CRH2.4F08 5', mRNA sequence.
CD486474
CD486474.1 GI:31407439
EST.
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Commonwealth Scientific and Industrial Research Organisation
Division of Plant Industry
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                                                                                                                                                                                                                                                  Black Mountain Laboratories, Cr
Black Mountain, Canberra, ACT,
Tel: 61 2 6246 4914, 6246 5377
Fax: 61 2 6246 5000
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                                                                                                                                                                                                      Email: Caitriona.Dowd@csiro.au, Vector clipped sequences Bases
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Location/Qualifiers
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/organism="Gossypium hirsutum"
/mol type="mRNA"
/cultivar="DeltaEMBRALD"
/db_xref="taxon:3635"
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/dev_stage="5 day old seedlings"
/lab_host="Y1090(ZL)"
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Library (CRH)"
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/clone="CRH2.4F08"
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/mol_type="mRNA"
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Bases 1-17 (GTCGACCCACGCGTCCG):
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/dev stage="5 day old seedlings"
/lab_host="Y1090(ZL)"
/clome_ilb="Cotton Root and Hypocotyl Lambda ZIPLOX
Library (CRH)"
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